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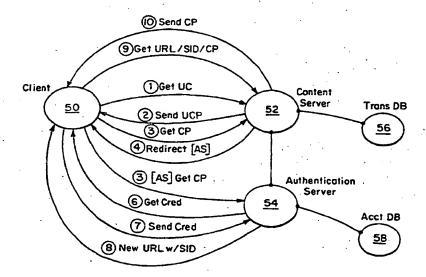
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(57) Abstract

This invention relates to methods for controlling and monitoring access to network servers. In particular, the process described in the invention includes client-server sessions over the Internet involving hypertext files. In the hypertext environment, a client views a document transmitted by a content server with a standard program known as the browser. Each hypertext document or page contains links to other hypertext pages which the user may select to traverse. When the user selects a link that is directed to an access-controlled file, the server subjects the request to a secondary server which determines whether the client has an authorization or valid account. Upon such verification, the user is provided with a session identification which allows the user to access to the requested file as well as any other files within the present protection domain.

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INTERNET SERVER ACCESS CONTROL AND MONITORING SYSTEMS

Reference to Appendix

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10 Background of the Invention

The Internet, which started in the late 1960s, is a vast computer network consisting of many smaller networks that span the entire globe. The Internet has grown exponentially, and millions of users ranging from individuals to corporations now use permanent and dial-up connections to use the Internet on a daily basis worldwide. The computers or networks of computers connected within the Internet, known as "hosts", allow public access to databases featuring information in nearly every field of expertise and are supported by entities ranging from universities and government to many commercial organizations.

The information on the Internet is made available to the public through "servers". A server is a system running on an Internet host for making available files or documents contained within that host. Such files are typically stored on magnetic storage devices, such as tape drives or fixed disks, local to the host. An Internet server may distribute information to any computer that requests the files on a host. The computer making such a request is known as the "client", which may be an Internet-connected

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workstation, bulletinaboard system or home personal computer (PC). Thorn Carl Translation to the computer (PC).

Protocol) is one networking protocol that permits full use of the Internet. All computers on a TCP/IP network need unique ID codes. Therefore, each computer or host on the Internet is identified by a unique number code, known as the IP (Internet Protocol) number or address, and corresponding network and computer names. In the past, an

- Internet user gained access to its resources only by identifying the host computer and a path through directories within the host's storage to locate a requested file. Although various navigating tools have helped users to search resources on the Internet without knowing
- specific host addresses, these tools still require a substantial technical knowledge of the Internet.

information on the Internet which allows a user to navigate the Internet resources infultively, without IP addresses or

- other technical knowledge. The Web dispenses with commandline utilities which typically require a user to transmit sets of commands to communicate with an Internet server. Instead, the Web is made up of hundreds of thousands of interconnected "pages", or documents, which can be
- 25. displayed on a computer monitor. The Web pages are provided by hosts running special servers. Software which runs these Web servers is relatively simple and is available on a wide range of computer platforms including PC's. Equally available is a form of client software,
- 30 known as a Web "browser", which is used to display Web pages as well as traditional non-Web files on the client system. Today, the Internet hosts which provide Web servers are increasing at a rate of more than 300 per month, en route to becoming the preferred method of
- 35 Internet communication.

Created in 1991, the Web is based on the concept of "hypertext" and a transfer method known as "HTTP"

(Hypertext Transfer Protocol) HTTP is designed to run primarily over TCP/IP and uses the standard Internet setup, where a server issues the data and a client displays or processes it. One format for information transfer is to create documents using Hypertext Markup Language (HTML).

HTML pages are made up of standard text as well as formatting codes which indicate how the page should be displayed. The Web client, a browser, reads these codes in order to display the page. The hypertext conventions and related functions of the world wide web are described in the appendices of U.S. Patent Application Serial No. 08/328,133, filed on October 24, 1994, by Payne etaal.

Each Web page may contain pictures and sounds in addition to text. Hidden behind certain text, pictures or sounds are connections, known as "hypertext links" ("links"), to other pages within the same server or even on other computers within the Internet. For example, links may be visually displayed as words or phrases that may be underlined or displayed in a second color. Each link is directed to a web page by using a special name called a URL (Uniform Resource Locator). URLs enable a Web browser to go directly to any file held on any Web server. A user may also specify a known URL by writing it directly into the command line on a Web page to jump to another Web page.

The URL naming system consists of three parts: the transfer format, the host name of the machine that holds the file, and the path to the file. An example of a URL may be:

No. or was a bear all end send (admirance for

http://www.college.uniy.edu/Adir/Bdir/Cdir/page.html,

BNSDOCID: <WO___9642041A2_I_>

where "http" represents the transfer protocol; a colon and two forward slashes (://) are used to separate the transfer format from the host name; "www.college.univ.edu" is the shost name in which "www" denotes that the file being

- requested is a Web page; "/Adir/Bdir/Cdir" is a set of directory names in a tree structure, or a path, on the host machine; and "page.html" is the file name with an indication that the file is written in HTML.
- The Internet maintains an open structure in which

 10 exchanges of information are made cost-free without

 restriction. The free access format inherent to the

 Internet, however, presents difficulties for those
 information providers requiring control over their Internet
 servers. Consider for example, a research organization
- 15 that may want to make certain technical information available on its Internet server to a large group of colleagues around the globe, but the information must be kept confidential. Without means for identifying each client, the organization would not be able to provide
- information on the network on a confidential or preferential basis. In another situation, a company may want to provide highly specific service tips over its Internet server only to customers having service contracts or accounts.
- Access control by an Internet server is difficult for at least two reasons. First, when a client sends a request for a file on a remote Internet server, that message is
 - routed or relayed by a web of computers connected through the Internet until it reaches its destination host. The
- oclient does not necessarily know how its message reaches the server. At the same time, the server makes responses without ever knowing exactly who the client is or what its IP address is. While the server may be programmed to trace its clients, the task of tracing is often difficult, if not
- 35 impossible. Secondly, to prevent unwanted intrusion into

private local area networks (LAN) system administrators implement various data-flow control mechanisms, such as the Internet "firewalls", within their, networks. An Internet firewall allows a user to reach the Internet anonymously while preventing intruders of the outside world from accessing the user's LAN.

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Summary of the Invention of the Inventio

The present invention relates to methods of processing service requests from a client to a server through a network. In particular the present invention is applicable to processing client requests in an HTTP (Hypertext Transfer Protocol) environment, such as the World-Wide Web (Web). One aspect of the invention involves forwarding a service request from the client to the server and appending a session identification (SID) to the request and to subsequent service requests from the client to the server within a session of requests from the client to the server within a session of requests. In a preferred embodiment, the present method involves returning the SID from the server to the client upon an initial service request made by the client. A valid SID may include an authorization identifier to allow a user to access controlled files.

identifier to allow a user to access controlled files.

In a preferred embodiment, a client request is made with a Uniform Resource Locator (URL) from a Web browser. Where a client request is directed to a controlled file without an SID, the Internet server subjects the client to an authorization routine prior to issuing the SID, the SID being protected from forgery. A content server initiates the authorization routine by redirecting the client's request to an authentication server which may be at a different host. Upon receiving a redirected request, the authentication server returns a response to interrogate the client and then issues an SID to a qualified client. For a new client, the authentication server may open a new account and issue an SID thereafter. A valid SID typically

identifier, an expiration time such as date, the IP address of the user computer, and an unforgettable digital signature such as a cryptographic hash of all of the other items in the SID encrypted with a secret key. The authentication server then forwards a new request consisting of the original URL appended by the SID to the client in a REDIRECT. The modified request formed by a new URL is automatically forwarded by the client browser to the to content server.

When the content server receives a URL request accompanied by an SID, it logs the URL with the SID and the user IP address in a transaction log and proceeds to validate the SID. When the SID is so validated, the

15 content server sends the requested document for display by the client's Web browser.

In the preferred embodiment, a valid SID allows the client to access all controlled files within a protection domain without requiring further authorization. A

20 protection domain is defined by the service provider and is a collection of controlled files of common protection within one or more servers.

when a client accesses a controlled Web page with a valid SID, the user viewing the page may want to traverse a

- possibilities. The user may traverse a link to another page in the same path. This is called a "relative link".

 A relative link may be made either within the same domain or to a different domain. The browser on the client
- computer executes a relative link by rewriting the current URL to replace the old controlled page name with a new one. The new URL retains all portions of the old, including the SID, except for the new page name. If the relative link points to a page in the same protection domain, the SID
- 35 remains valid, and the request is honored. However, if the

relative link points to a controlled page in a different protection domain, the SID is no longer valid, and the client is automatically redirected to forward the rewritten URL to the authentication server to update the SID. The updated or new SID provides access to the new domain if the user is qualified.

The user may also elect to traverse a link to a document in a different path. This is called an "absolute link". In generating a new absolute link, the SID is overwritten by the browser. In the preferred embodiment, the content server, in each serving of a controlled Web page within the domain, filters the page to include the current SID in each absolute URL on the page. Hence, when the user elects to traverse an absolute link, the browser is facilitated with an authenticated URL which is directed with its SID to a page in a different path. In another embodiment, the content server may forego the filtering procedure as above-described and redirect an absolute URL to the authentication server for an update.

An absolute link may also be directed to a controlled file in a different domain. Again, such a request is redirected to the authentication server for processing of a new SID. An absolute link directed to an uncontrolled file is accorded an immediate access.

In another embodiment, a server access control may be maintained by programming the client browser to score an SID or a similar tag for use in each URL call to that particular server. This embodiment, however, requires a special browser which can handle such communications and is generally not suitable for the standard browser format common to the Web.

Another aspect of the invention is to monitor the frequency and duration of access to various pages both controlled and uncontrolled. A transaction log within a content server keeps a history of each client access to a

Line of the state

page including the link sequence through which the page was accessed. Additionally, the content server may count the client requests exclusive of repeated requests from a common client. Such records provide important marketing 5 feedback including user demand, access pattern, and

5 feedback including user demand, access pattern, and relationships between customer demographics and accessed upages and access patterns.

The above and other features of the invention including various novel details of construction and

- combinations of parts will now be more particularly described with reference to the accompanying drawings and pointed out in the claims. It will be understood that the particular devices and methods embodying the invention are shown by way of illustration only and not as limitations of
- 15 the invention. The principles and features of this invention may be employed in varied and numerous embodiments without departing from the scope of the invention.

Brief Description of the Drawings: 30 4 30

- 200 A 1. Figure 1 is a diagram illiustrating the Internet
 - Figure 2A is a flowchart describing the preferred method of Internet server access control and monitoring.

်လုတ်က သည်သို့တာ မေရန် တာ နေက လုံးပြုပည်တွေကို တာဂုန်းကို

- Figure 2B is a related flowchart describing the 25s details of the authentication process.
- Figure 3 illustrates an example of a client-server exchange session involving the access control and monitoring method of the present invention.
- Figure 4 is an example of a World Wide Web page.
- Figure 5 is an example of an authorization form page.

 Figure 6 is a diagram describing the details of the translation of telephone numbers to URLs.

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Detailed Description of the Invention:

Referring now to the drawings, Figure 1 is a graphical illustration of the Internet. The Internet 10 is a network of millions of interconnected computers 12 including:

- systems owned by Internet providers 16 and information systems (BBS) 20 such as Compuserve or America Online. Individual or corporate users may establish connections to the Internet in several ways. A user on a home PC 14 may purchase an account through the Internet provider 16.
- 10 Using a modem 22, the PC user can dial up the Internet provider to connect to a high speed modem 24 which, in turn provides a full service connection to the Internet.

 A user 18 may also make a somewhat limited connection to the Internet through a BBS 20 that provides an Internet gateway connection to its customers.

Figure 2A is a flowchart detailing the preferred process of the present invention and Figure 4 illustrates a sample Web page displayed at a client by a browser. The page includes text 404 which includes underlined link text

- 412. The title bar 408 and URL bar 402 display the title and URL of the current web page, respectively. As shown in Figure 4, the title of the page is "Content Home Page" and the corresponding URL is "http://content.com/homepage".

 When a cursor 414 is positioned over link text 412b, the
- page which would be retrieved by clicking a mouse is typically identified in a status bar 406 which shows the URL for that link. In this example the status bar 406 shows that the URL for the pointed link 412b is directed to a page called "advertisement" in a commercial content.
- server called "content". By clicking on the link text, the user causes the browser to generate a URL GET request at 100 in Figure 2A. The browser forwards the request to a content server 120, which processes the request by first determining whether the requested page is a controlled
- 35 document 102. If the request is directed to an

uncontrolled page, as in "advertisement" page in this example, the content server records the URL and the IP address, to the extent it is available; in the transaction log 114. The content server then sends the requested page

5 to the browser 116 for display on the user computer 117. . If the request is directed to a controlled page, the content, server determines whether the URL contains an SID 102. For example, a URL may be directed to a controlled page name "report", such as "http://content.com/report", 10 that requires an SID. If no SID is present, as in this example, the content server sends a "REDIRECT" response 122 to the browser 100 to redirect the user's initial request to an authentication server 200 to obtain a valid SID. details of the authentication process are described in Figure 2B and will be discussed later, but the result of the process is an SID provided from the authentication server to the client. In the above example, a modified URL appended with an SID may bes "http://content.com/[SID]/ report". The preferred SID is a sixteen character ASCII 20 string that encodes 96 bits of SID data, 6 bits per

character. It contains a 32-bit digital signature, a 16bit expiration date with a granularity of one hour, a 2-bit key identifier used for key management, an 8-bit domain comprising a set of information files to which the current

25. SID authorizes access, and a 22-bit user identifier. The remaining bits are reserved for expansion. The digital signature is a cryptographic hash of the remaining items in the SID and the authorized IP address which are encrypted with a secret key which is shared by the authentication and 30. content servers. person forestron and a different manual

If the initial GET URL contains a SID, the content server determines whether the request is directed to a page within the current domain 106. If the request having a SID is directed to a controlled page of a different domain, the

SID is no longer valid and, again, the user is redirected to the authentication server 122.

If the request is for a controlled page within the current domain, the content server proceeds to log the request URL, tagged with SID, and the user IP address in the transaction log 108. The content server then validates the SID 110. Such validation includes the following list of checks: (1) the SID's digital signature is compared against the digital signature computed from the remaining items in the SID and the user IP address using the secret key shared by the authentication and content

the secret key shared by the authentication and content servers; (2) the domain field of the SID is checked to verify that it is within the domain authorized; and (3) the EXP field of the SID is checked to verify that it is later than the current time.

If the validation passes, the content server searches the page to be forwarded for any absolute URL links contained therein 112, that is, any links directed to controlled documents in different content servers. The content server augments each absolute URL with the current SID to facilitate authenticated accesses across multiple content servers. The requested page as processed is then

transmitted to the client browser for display 117. The user viewing the requested Web page may elect to traverse any link on that page to trigger the entire sequence again 100.

Figure 2B describes the details of the authentication process. The content server may redirect the client to an authentication server. The REDIRECT URL might be:

30 "http://auth.com/authenticate2demain-(durant to authenticate2demain-(durant to aut

"http://auth.com/authenticate?domain=[domain]&URL=http://content.com/report". That URL requests authentication and specifies the domain and the initial URL. In response to the REDIRECT, the client browser automatically sends a GET request with the provided URL.

Whenever the content server redirects the client to the authentication server 200, the authentication server initiates the authorization process by validating that it is for an approved content server and determining the level 5 of authentication required for the access requested 210. Depending on this level, the server may challenge the user 212 for credentials. If the request is for a low level decument, the authentication may issue an appropriate SID immediately 228 and forego the credential check procedures. 10. If the document requires credentials, the authentication server sends a "CHALLENGE" response which causes the client browser to prompt the user for credentials 214. A preferred credential query typically consists of a request for user name and password. If the user is unable to provide a password, the access is denied. The browser forms an authorization header 300 from the information provided, and resends a GET request to the authentication server using the last URL along with an authorization header. For example, a URL of such a GET request may be: 20. "http://auth.com/authenticate?domain=[domain]&URL=http:// or content.com/report and the authorization header may be: "AUTHORIZE: [authorization]".

Upon receiving the GET request, the authentication server queries an account database 216 to determine whether 25 the user is authorized 218 to access the requested document. A preferred account database may contain a user profile which includes information for identifying purposes, such as client IP address and password, as well as user demographic information, such as user age, home 30 address, hobby, or occupation, for later use by the content server. If the user is authorized, an SID is generated 228 as previously described. If the user is not cleared for authorization, the authentication server checks to see if the user qualifies for a new account 220. If the user is not qualified to open a new account, a page denying access

10

is qualified, the new user is sent a form page such as illustrated in Figure 5 to initiate a real-time on-line registration 224. The form may, for example, require personal information and credit references from the user. The browser is able to transmit the data entered by the user in the blanks 502 as a "POST" message to the authentication server. A POST message causes form contents to be sent to the server in a data body other than as part of the URL. If the registration form filled out by the new user is valid 226, an appropriate SID is generated 228. If the registration is not valid, access is again denied 222.

An SID for an authorized user is appended ("tagged")

230 to the original URL directed to a controlled page on

15 the content server. The authentication server then

transmits a REDIRECT response 232 based on the tagged URL

to the client browser 100. The modified URL, such as

"http://content.com/[SID]/report" is automatically

forwarded to the content server 120.

20 Figure 3, illustrates a typical client-server exchange involving the access control and monitoring method of the present invention. In Step 1, the client 50% runnings a browser transmits a GET request through a network for an uncontrolled page (UCP) . For example, the user may request 25 an advertisement page by transmitting a URL "http://streets content.com/advertisement", where "content.com" is the server name and "advertisement" is the uncontrolled page In Step 2, the content server 52 processes the GET request and transmits the requested page, "advertisement". The content server also logs the GET request in the transaction database 56 by recording the URL, the client IP address, and the current time.

In Step 3, the user on the client machine may elect to traverse a link in the advertisement page directed to a controlled page (CP). For example, the advertisement page

may contain a link to a controlled page called "report". Selecting this link causes the client browser 50 to forward as a GET request through a URL which is associated with the report file "http://content.com/report". The content 5 server 52 determines that the request is to a controlled page and that the URL does not contain an SID. In Step 4, the content server transmits a REDIRECT response to the client, and, in Step 5, the browser automatically sends the REDIRECT URL to the authentication server 54. The REDIRECT 10 URL sent to the authentication server may contain the following string: The total total to a language to the "http://auth.com/authenticate?domain=[domain]&URL=http:// content.com/report and the part addition before The authentication server processes the REDIRECT and 15 determines whether user credentials (CRED) are needed for authorization. In Step 6, the authentication server transmits a "CHALLENGE" response to the client. previously described, typical credentials consist of user name and password? An authorization header based on the 20 credential information is then forwarded by the client browser to the authentication server. For example, a GET URL having such an authorization header is: "http://autho.com/authenticate?domain=[domain]&URL=http:// accontent com/report and the authorization header may 25 - be: "AUTHORIZE: [authorization]". The authentication server processes the GET request by checking the Account Database s 58. If a valid account exists for the user, an SID is is issued which authorizes access to the controlled page "report" and all the other pages within the domain. 30 As previously described, the preferred SID comprises a compact ASCII string that encodes a user identifier, the current domain, a key identifier, an expiration time, the client IP address, and an unforgeable digital signature. In Step 8, the authentication server redirects the client 35 to the tagged URL, "http://content.com/[SID]/report", to

the client. In Step 9, the tagged URL is automatically forwarded by the browser as a GET request to the content server. The content server logs the GET request in the Transaction database 56 by recording the tagged URL, the client IP address and the current time. In Step 10, the content server, upon validating the SID, transmits the requested controlled page "report" for display on the client browser.

According to one aspect of the present invention, the

content server periodically evaluates the record contained
in the transaction log 56 to determine the frequency and
duration of accesses to the associated content server. The
server counts requests to particular pagesmexclusive of
repeated requests from a common client in order to

to determine the merits of the information on different pages
for ratings purposes. By excluding repeated calls, the
system avoids distortions by users attempting to "stuff the
ballot box." In one embodiment, the time intervals
between repeated requests by a common client are measured
to exclude those requests falling within a defined period
of time.

Additionally, the server may, at any given time, track access history within a client-server session. Such a history profile informs the service provider about link transversal frequencies and link paths followed by users. This profile is produced by filtering transaction logs from one or more servers to select only transactions involving a particular user ID (UID). Two subsequent entries, A and B, corresponding to requests from a given user in these logs represent a link traversal from document A to document B made by the user in question. This information may be used to identify the most popular links to a specific page and to suggest where to insert new links to provide more direct access. In another embodiment, the access history is evaluated to determine traversed links leading to a

purchase of a product made within commercial pages. This information may be used, for example, to charge for advertising based on the number of link traversals from an advertising page to a product page or based on the count of purchases resulting from a path including the advertisement. In this embodiment, the server can gauge the effectiveness of advertising by measuring the number of sales that resulted from a particular page, link, or path of links. The system can be configured to charge the merchant for an advertising page based on the number of sales that resulted from that page.

According to another aspect of the present invention, a secondary server, such as the authentication server 200 in Figure 2B, may access a prearranged user profile from the account database 216 and include information based on such a profile in the user identifier field of the SID. In a preferred embodiment, the content server may use such an SID to customize user requested pages to include personalized content based on the user identifier field of the SID.

In another aspect of the invention, the user may gain access to domain of servers containing journals or publications through a subscription. In such a situation, the user may purchase the subscription in advance to gain access to on-line documents through the Internet. The user gains access to a subscribed document over the Internet through the authorization procedure as described above where an authorization indicator is preferably embedded in a session identifier. In another embodiment, rather than relying on a prepaid subscription, a user may be charged and billed each time he or she accesses a particular document through the Internet. In that case, authorization may not be required so long as the user is fully identified in order to be charged for the service. The user

identification is most appropriately embedded in the session identifier described above.

In another aspect of the invention, facilities are provided to allow users to utilize conventional telephone numbers or other identifiers to access merchant services. These merchant services can optionally be protected using SIDs. In a preferred embodiment, as shown in Figure 6, a Web browser client 601 provides a "dial" command to accept a telephone number from a user, as by clicking on a "dial" icon and inputting the telephone number through the keyboard. The browser then constructs a URL of the form "http://directory.net/NUMBER", where NUMBER is the telephone number or other identifier specified by the user. The browser then performs a GET of the document specified by this URL, and contacts directory server 602, sending the NUMBER requested in Message 1.

In another embodiment, implemented with a conventional browser, client 601 uses a form page provided by directory server 601 that prompts for a telephone number or other identifier in place of a "dial" command, and Message 1 is a POST message to a URL specified by this form page.

Once NUMBER is received by directory server 601, the directory server uses database 604 to translate the NUMBER to a target URL that describes the merchant server and document that implements the service corresponding to NUMBER. This translation can ignore the punctuation of the number, therefore embedded parenthesis or dashes are not significant.

In another embodiment an identifier other than a
number may be provided. For example, a user may enter a
company name or product name without exact spelling. In
such a case a "soundex" or other phonetic mapping can be
used to permit words that sound alike to map to the same
target URL. Multiple identifiers can also be used, such as

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a telephone number in conjunction with a product name or extension.

In Message 2, Directory server 602 sends a REDIRECT to client 601, specifying the target URL for NUMBER as computed from database 604. The client browser 601 then automatically sends Message 3 to GET the contents of this URL. Merchant server 603 returns this information in Message 4. The server 602 might have returned a Web page to the client to provide an appropriate link to the required document. However, because server 602 makes a translation to a final URL and sends a REDIRECT rather than

required document. However, because server 602 makes a translation to a final URL and sends a REDIRECT rather than a page to client 601, the document of message 4 is obtained without any user action beyond the initial dial input.

The Target URL contained in Message 3 can be an ordinary URL to an uncontrolled page, or it can be a URL that describes a controlled page. If the Target URL describes a controlled page then authentication is performed as previously described. The Target URL can also describe a URL that includes an SID that provides a preauthorized means of accessing a controlled page.

Among benefits of the "dial" command and its implementation is an improved way of accessing the Internet that is compatible with conventional telephone numbers and other identifiers. Merchants do not need to alter their print or television advertising to provide an Internet specific form of contact information, and users do not need to learn about URLs.

In the approach a single merchant server can provide multiple services that correspond to different external "telephone numbers" or other identifiers. For example, if users dial the "flight arrival" number they could be directed to the URL for the arrival page, while, if they dial the "reservations" number, they would be directed to the URL for the reservations page. A "priority gold" number could be directed to a controlled page URL that

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would first authenticate the user as belonging to the gold users group, and then would provide access to the "priority gold" page. An unpublished "ambassador" number could be directed to a tagged URL that permits access to the "priority gold" page without user authentication.

This invention has particular application to network sales systems such as presented in U.S. Patent Application Serial No. 08/328,133, filed October 24, 1994, by Payne et al. which is incorporated herein by reference.

. 10 Equivalents II. a games the USV letters of motivation of

Those skilled in the art will know, or be able to ascertain using no more than routine experimentation, many equivalents to the specific embodiments or the invention described herein. These and all other equivalents are intended to be encompassed by the following claims.

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្រុមប្រជាពលរដ្ឋមាន ស្នាត់ ស្នាក់ស្រាស់ ស្នានាស៊ីកាសស្ថា នេះសីក្រុសវិការ៉ា ស៊ីកាស៊ីការ៉ា ស៊ីកាស៊ីការ៉ា ស៊ីកាស៊ី

వారు గుండ్స్ ఓ కంటా కుంటాన్ని అయ్యాయాలు కొంతా కృష్ణి ముఖాయాలుగున్ని అయి. ఇద్ది క్షేమిక్స్ క్షేమిక్స్ క్షేమిక్స

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కొండికి ఇట్టులో కాటాన్ని అంది. కేంద్రంలో అయిన మాట్లుకుండి కాట్ కేంద్రి ప్రక్టాన్ని ఆయ్ కాట్లుకుండి. మాట్లు ఇట్టుకుండి కాటాన్ని కాటాన్ని కాటాన్ని కాట్లుకుండి కాట్లుకుండి కేంద్రంలో కాట్లుకుండి కాటాన్ని కాట్లుకుండ

్లు కార్ముడ్ కార్లు కొండి కార్యంలో ఉంది. మాట్లు అంటి కార్యం కొంటే కార్యం కార్యంలో ఉంది. మాట్లు కార్యంలో ఉంది. అయి చేశారి, అంటక్ అయే మాక్కుకుంటే క్రాంత్రికి కార్యంలో కార్యం కార్యంలో ఉంది.

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್ರೀಟ್ರಿಕ್ಟ್ ಟ್ರೀಕ್ಷ್ಮ ಅಲ್ಲಿಯು ಕ್ರಾರ್ಟ್ಸ್ ಸ್ಟ್ಟ್ ಟ್ರೀಕ್ಟ್ ಹಾಡಿತ್ತು ಅನ್ನಡ ಸಿಟ್ಟ್ ಅಲ್ಲಿ ಅಥವು ಬೆಳಗಳ ಅಡಡಿಯ ಪ್ರ ಆರಂಭ್ಯ ಚಿತ್ರಗಳ ಕೃತ್ರ ಪ್ರಕ್ರಾನೆಗಳು ಅಚ್ಚರ್ಚಿತ ಅಭಿಕೃತ್ತಿಗೆ ಅರ್ಥಿಯ ಪ್ರಕ್ರಿಸಿಕ ಅರ್ಥಿಯ ಪ್ರತಿಕ್ಷಿತ್ರ ಪ್ರತಿಕ್ರಿಸಿಕ ಮತ್ತ

ំ បាន ខណ្ឌ ២ ខណ្ឌម**មុខណៈ ដែល ជាសមាសង្គស់ ២. ។ (2**000 ការ**ខរំរំយ ១**៤ សូវសមុ គ

BNSDOCID: <WO___9642041A2_I_>

Appendix

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/* TclIdSid
                       Scans an ascii line and finds an ascii SID. (no validation though)
      * Inputs:
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m s} *is so lineoftexty. At ({
m constant}) is in . With large (CL) or in . We have with profit in
                                                                                                                             Tellerwith I had a bit is son all high
      * Returns:
                       ascii bin_sid, if a sid is found it is returned.
                                                                                                                                                                                                      ar ears un
  int TclIdSid(ClientData dummy, Tcl_Interp *interp,
                                                                                                   int argc, char **argv)
     - - { - - - -
               char *sidp, *cp;
                                                                                                                                                               ್ಯಾಕ್ ಅನೇವ ನೆಲ್ಲಿಕೊಂಡಲಾಗುವ ಒಂದಿ
               interp->result[0] = 0;
                                                                                                                                                                                                             River Mill disk
                                                                                                                                                                      (130) desait set fact libra
              if (argc != 2)
                                                                                                                                                                                        ್ಯತ್ತೇ ಇದು ಶಿಕ್ಷಣ್ಣಕ್ಕುಬ
                                                                                                                                                                      will a life of the Sergise w
                       interp->result = "wrong # args";
                      return TCL_ERROR;
                                                                                                                                                                                                        . Bhashir Hills 14
              Mid Nasinilari edili
               if (sidp == NULL) return TCL_OK;
              cp = (char *) strstr(sidp+1,"/");
              if ((cp == NULL) && (strlen(sidp) != 19)) return TCL_OK;
               if ((cp - sidp) != 19) return TCL OK;
                                                                                                                                                                                                       48 127 F 47 47 L 1
               strncpy(interp->result, sidp,19);
                                                                                                                                                                                                     · - 21" - 11 11 1881
              interp->result[19] = 0;
                                                                                                                                                                                                        wali dida il
              return TCL_OK;
                                                                                                                                                                                                          $ 1.50 may 7 1.715 TV
                                                                                                                                                                                                                     ಕರ್ಷಚಿತ್ರವರ
     * Register commands with interpreter.
                                                                                                                                                           int SidSupInit(Tcl Interp *interp)
       Tcl_CreateCommand(interp, "packsid", TclPackSid, NULL, NULL);
        Tcl_CreateCommand(interp, "unpacksid", TclUnpackSid, NULL, NULL);
Tcl_CreateCommand(interp, "unpacksidnovalidate", TclUnpackSidNoValidate, NULL, has a common the color of the vector and a second colors of the
        Tcl_CreateCommand(interp, "issid", varecova tena digrame eco conserva tena Collaboration (interp, "issid", "TclIdsid, "NULL, NULL); return TCLOK; 23 Tena constituta as a factor of the collaboration 
                                                   na lugament anny laite unemeet peleanatai medatime teenquis t
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::22::1:4<u>C</u>::
                                                                                                                                                                                                                            3.43.500 71
                   compute thash -- page of the delabeling as emulations of dead
                      Compute the MD5 hash for the specified string, returning the hash as
                   a 32b xor of the 4 hash longwords.
                                                                   ುವಿಕರತ್ನಲ್ಲಿ 3. ಆರೇ ಮೀಡಲ್ ಎಂ. ಕಿ. . ಇತ್ತಿ ಮತ್ತು ನಿನಿಮಿಸಲು
                                       hash int.
              * Side effects:
                                                                                  ್ರೀ ಕೃತಿಕ್ರೀಗಳ ಕೃಷ್ಣಕ್ಕಾರದಲ್ಲಿ ಮೇರ್ ಕ್ರೀಗ್ರಿ ಮಾಡಿ ಮಾಡಿದೆ ಸಹಾದಿಸಿದ್ದಾರೆ. ಪ್ರತಿ ಕ್ರೀಗ್ರಿಸಿ ದಿನಿಗಳ ಪ್ರಕ್ರಿಸಿಕೆ
                                       None.
                                                                                     ্তলত সংগ্ৰহৰ বিষয়ে কেন্দ্ৰৰ লি ছ
         int compute_ihash(char *str)
                                                                                                                                                                       ್ಟ್ ಆ (೨) ಕ್ರಾಂಡಕಗಳ ಕ್ರಾಚಿಕ ಚಿ
                     MD5 CTX md5;
                  unsigned char hash[16];
                                                                                                                                                                                                         (S el pers' di
                     unsigned int *p1;
                     unsigned int hashi = 0;
                                                                                                                                interpentation - Throng t angel,
                                                                                                                                                                                 og pomen dom ambulet
                     MD5Init(&md5);
                     MD5Final(hash, &md5);
                                                                                                                                        AND LOC TRULES WITH A GOIS, II
                    ತೆಲಿ ೧೯೮೮ ಈ ಉಚಿಸಿತ್ತು ಹೇಳಿ ಗೆಲ್ಲಿಯುವಾಗಿ ಚಿಕ್ಕಾರಿಸಲ್ಲಿ ಕಾಲ್ಕೆಗಳು
                     hashi = *p1+;
                                                                                                                     HAD WITHOUT (FIRST COMES TO ALL
                     hashi ^= *pl++; ...
                                                                                                                                tiaung (kathitani negola, anti 1997)
                     hashi ^= *pl++;
                                                                                                                                                                                         or in the same of the constitution
                     hashi ^= *pl++;
                                                                                                                                                                                                            angitar tarah
                      return hashi;
                    ticket.c --
                                                                                                                                    gageroratification condition of colingities
                                         Commands for TICKET.
                                                                                                                                             The Control of the Co
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* Steve Morris
         * morris@OpenMarket.com
                                                                                                                Company College Committee 
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        * Created: Wed Mar 1 1995
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        * $Source: /omi/proj/master/omhttpd/Attic/ticket.c,v $
                     n 1996 na kan na kan na manan na kataban na mangsa nga atti na kanan na kanan na kanan na kanan na kanan na ka
                                                                                   grammer and appropriately
                                                                                                             ్రామం జానిచింది. ఇది కుండా కార్యాలు ఎందిని కింద్రా కింద్రా కింది. కింద్రా కింద్రా కింద్రా కింద్రా కింద్రా కింద్రా
   #if !defined(lint)
                                                                                                      ිදු කාර්තයක් ශ්රීඩුම රාජ් ප්රේම්ධ වර්ගයක් රජයිර්ය
  static const char rcsid[]="$Header:_./omi/proj/master/omhttpd/Attic/ticket.c,v
   2.
  #endif /*not lint*/
                                                                                                       ್ರ∦ ಭಾವಾದ ಬಹುದು ಅದರ ಕಟ್ಟು ಅವಿ ಅವರ ಕೆ ಗಾಣಕ ಕನ್ನಡ್
                                                                                              The second of th
  #include <stdio.h>
   #include <sys/utsname.h>
                                                                                                                                                            ing the continue to the second
   #include "httpd.h"
                                                                                                              · 42.2.54.
                                                                                                                                                                 yes to the least to
   #include "md5.h"
  #include "ticket.h"
  static TICKET_Server TicketServerData;

    Embedies an asset in Milita

  /*
      * This file implements all the ticket/sid related functions for the server.
                                        and the second of the second second of the second s
       The region commands RequireSID and poxxxx can be used to limit
     * access to groups of files based on the authentication of the requestor.
* The two commands are very similar, and only differ in the method used to
     * present the authentication data (via the URL) and in handling of the
    * failing access case. For failing TICKET's, a "not authorized" message is
    * generated. For failing (or absent) SID's, a REDIRECT (either local or via
    * CGI script) is performed to forward the request to an authentication
server.
     * RequireSID domain1. [domain2; And domainn] To find the relatives
                                This command denies access unless the specified properties are
                                true of the request. Only one RequireSID or xxxxx command can
                               be used for a given region, though it may specify multiple domains.
                                                                                                    ្ត ខណ្ឌ ស្រួន ១៩៩៩៦ ខណ្ឌ ប្រជាធិប្រាប់ជាតិទេ
                                                                                                            */
                                                                                    onger og de stægligt for til erkeligt og 1994 til
          static_int ProcessRequires(ClientData clientData, Tcl_Interp *interp,
                                                                                                                                int argc, char **argv, int flavor);
                                                        DomainNameCmd(ClientData clientData, Tcl_Interp *interp,
        static int
                                                                                                                               int argc, char **argv);
     static int GetDomain(char *domname, int dflt);
```

```
static char *GetAsciiDomain(char *domname, char *dflt);
        static int computer_ihash(char *str);
        static char *computerHash(char *str);
                                                                                          The transfer of the second of
       static char *GetSecret(int kid):
                                static int
        static char *CreateSid(HTTP_Request *reqPtr, int dom, int uid, int kid,
                                                             int exp, int uctx);
       static void freeTicketReqData(void *dataPtr);
                                                                                                        ក្សាប្រជាពល្យ (ការអ្កា និងជ
       static void DumpStatus(HTTP_Request *reqPtr);
       static void TICKET_DebugHooks (ClientData clientData, char *suffix,
                                                                   HTTP_Request *reqPtr);
       static int ParseSid(HTTP_Request *regPtr);
       static int ParseTicket(HTTP_Request *reqPtr);
       static char *fieldParse(char *str, char sep, char **endptr);
                                                                                            ಜಕ ಸಾ*ಜರ ಕಗಿತ್ತು ⊹
       void TICKET_ConfigCheck();
                                                                                                         albertar de la riv
       void DumpRusage(HTTP_Request *reqPtr);
                                                                                                            All Aller Abur ap
                                                                                                      Add Banto Notice of the Add
                                                                  space of IIIKIT Server is attendence that of
     TICKET_RequireSidCmd --
      Checks that the requested URL is authorized via SID to access this
               region. If the access is not authorized and we do not have a "remote"
            authentication server registered, then an "unauthroized message"
       is returned. If a "remote authentication server" has been
declared, we REDIRECT to that server, passing the requested URL and
              required domain's as arguments.
      and the observations of the entire to the contract of the season when the decidence
    * Results: Grant a control of the co
        Normal Tcl result, or & REDIRECT request.
    * Side effects:
                Either an "unauthorized access" message or a REDIRECT in case of
  error.
    දුරු අතුරු කරන කරන වීම වැනුවලට හැකි අවවේ කරුවා විද්යාව වෙන විද්යාව අතුරු දිරි
  static int TICKET_RequireSidCmd(ClientData clientData, Tcl_Interp *interp,
                                                            int argc, char **argv)
         if (TicketGlobalData(EnableSidEater)) return TCL OK;
         return (ProcessRequires (clientData, interp, argc, argv, ticketSid));
        ्रेच पहारे प्रकार अध्यक्षण अध्यक्ष । यह वस्त्रे
  insertir (redπigEun du au o le esetat (10 g mm l'abbi) un birent
                             ertaliserum in griff til til atte
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ProcessRequired and car was abstract NAID grain emport of the acceptances
ora emplo
                 Titur to grammata ನಿರ್ವೇಶಿಕ ಅಥವಾ ಕಾಡಿಗಾಗಿ ದಾವಾಗುವಿ ಅಲ್ಲಿ ಈ ಅರ್ವ ಈ ಗಾರ್ಬನ್ಯವಿಗಳು
                           Checks that the requested URL is authorized to access this
                           region. The error cases are treated differently for SID v.s. TICKET.
                           For Ticket's, an unauthorized access generates a returned error
                                                                 n reardaglen = G thomas (arg. 14) - 1 - 1
          message.
                           For SID's, we first look to see if we are operating in "local
          authentica
                           mode", if we are, we generate a new SID, into the URL and re-process
                                                  Fig. 1.5 min ger sela If his haddenbill, )
          the
                           If not in "local" mode, we look for the presence of a
          remoteauthentications as a second demonstrate of the contraction of th
                           server, if we have one declared (in the conf file) we REDIRECT to it
                                                    88 (4 23549) 34 7777 (57 -6 (3 em 13)
          pas
                           the FULL url and a list of domains that would have been legal. If
          the Company as for a Ridsonton with a Police to the second distributions
                           authentication server was not found we return an error message.
             Results:
                          Normal Tcl result, a local reprocess command, or a REDIRECT request.
                                                                               ವಿನಿಕಾರ್ಗೆ ಜ್ಯಾನಿಕ್ಕಾ , ಅಕ್ಕಾರ್ಡ್ನಿ ಕ್ರಿಸ್ಟ್ ಸ್ಟ್
                                                                                                 ನಡಿಸುತ್ತದಲ್ಲಿ ಸಂಸ್ಥೆಸಿಕಡ
          * Side effects:
                          Either an "unauthorized access" message or a REDIRECT in case of
          error.
                                                               in a Bushacut mism o de rodene equation el
static int ProcessRequires(ClientData ClientData, Tcl_Interp *interp,
                                                                           int argc, char **argv, int flavor)
 or position of the second substitution and the profession of the first or secondary the
                 HTPP_Request *reqPtr = (HTTP_Request *) client Data;
                 HTTP_Server u *serverPtr; PdR103A bns .fro and blike set in 11 and *\
                 TICKET_Request *ticketPtr; : { distillanctia, isaRlet ulade for tula !!
              . DString targetUrl; gs: ween() scallscalOtesOiD em mobilscalidatil)
                 DString escapeUrl; ... or or personall) of collections as levelt, as
                 int i, required_dom;
                 char *NewSid, *cp;
: Chira : :: DStringInit (&targetUrl); : Cresourn (CAL Rolled (Anthernation of Cal
                                                                                        in filthegaids exilgation
                 DStringInit (&escapeUrl);
                                                                                                Tuequestes ignication
                 /* fetch the server private and ticket specific extension
                 serverPtr = reqPtr=>serverPtr; (3.3 -4 3 3.10.13%) equipminated
                 ticketPtr = (TICKET_Request *) HT_GetReqExtData(reqPtr,
          TicketServerData.tic
                                                                                        ្រាប់ ព្រះប្រទេស ខេត្ត បានប្រាប់
                 ASSERT (ticketPtr != NULL);
```

```
/* compare the requesting SID/Ticket<DOM> to authorized list of domains */
                             /* a match OR any valid domain and a required domain of TicketFreeArea is
                   su comme alegan on les la dividue et al Dibarran ella est afost
The state of the s
             of Tucker :, an inauthoribed more peraceuse a radur.) Common
                                required_dom = GetDomain(argv[i] -1);
                   if (required dom: 1=571) bese or another to be a NOTE of
if (firstLegalDom ==warl) firstLegalDom = required dom:
                                     if ( (ticketPtr->sidDom == required_dom) ||
                                    (ticketPtr->valid && (ticketPtr->sidDom != 1) &&
                                                     (required_dom == TicketGlobalData(FreeArea)) } 44 75 30000
                ((ticketPtr->ticketDom == required_dom) &&
                                                     (time(0) <= ticketPtr->ticketExp) &&
    If ...se = = wa e((DStringLength(&ticketPtr=>ticketIP) == 0) [] | = ...
                                                     (strcmp(DStringValue(&ticketPtr->ticketIP), DStringValue(&reqPtr-
             somewase tolice in this set in this set of the property of the set of the set
                         TOTAL THE DStringFree (AtargetUrl), fame a contract to the same of
                                               DStringFree (&escapeUrl);
                                               return TCL_OK;
                                            under un finialité des accessés neassage : : RIFIREC
                  /* count the number of domain crossing that caused re-auth */
                 ಮೇರೆ ಮುಕ್ತರು ಅಡ್ವು ಗಾರ್ವೇಗಳ ಕರ್ಮಕ್ರಮ
                 /* authorization failed, if this was a sid url, and local auth is enabled */
                 /* or this was an access to the free earea */ = 30 400 people of the
                 /* insert a new sid in the url, and REDIRECT back to the client 8?
                  ((firstLegalDom == TicketGlobalData(FreeArea)) https://git.ut/fi
                              && (flavor == ticketSid) && (firstLegalDom != r1)%) use g liss(
                                                                                                                                                 America burgan is still
                        if ((DStringLength(&reqPtr->url) != 0) && read to the qualitation of the
                                    (DStringValue(&reqPtr->url)[0] != '/'))
                              HTTP_Error(reqPtr, NOT_FOUND, "access denied due to poorly formed url");
                              DStringFree (&targetUrl);
                                                                                                                                            Time arts this primite the
                              DStringFree (&escapeUrl);
                               if (!ticketPtr->valid)
                                   DStringFree (&ticketPtr->sid);
                              return TCL_RETURN: RED. ON PROBUES OF STORY SEE . THE STORY OF STORY OF STORY
                              }
                       NewSid = CreateSid(reqPtr,
```

BNSDOCID: <WO _ 9642041A2_I_>

```
firstLegalDom, ticketPtr->uid,
                                                                                                TicketGlobalData(CurrentSecret), TicketGlobalData(LocalAuthExp)
                                                                                                ticketPtr->uctx);
                                       DStringFree(&ticketPtr->sid);
                                      DStringAppend(&ticketPtr->sid, NewSid, -1);
                                                                                                                                                                                                                                   en magga e legan ek er er egit i
                                      ComposeURL(reqPtr, DStringValue(&reqPtr->url), &targetUrl);
                                       IncTicketCounter(CountLocal Redirects);
                                                                                                                                                                                                                                                            Reformance Laboration
                                      HTTP_Error*reqPtr, REDIRECT, DStringValue(&targetUrl));
                                      DStringFree (&targetUrl);
                                      DStringFree (&escapeUrl);
                                      if (!ticketPtr->valid)
                                                DStringFree(&ticketPtr->sid);
                                                                                                                                                                                          est to a life confidence to the confidence of
                                      return TCL_RETURN;
                                                                                                                                                                       ్రా కూడా కారణండా కార్కు కాడ్టింగా చారంతుంది.
                                                                   Annual transfer of the second
                                                                                                                                                                                                                                                                    ्राष्ट्र । या ६५%०० ।
  /* authorization failed, build the REDIRECT URL arg's. */
                         /* If present, REDIRECT to authentication server */25
                         if ((DStringLength(&TicketGlobalData(AuthServer)) != 0) && (flavor == ticket
                                     if 4(4(DStringLength (&reqPtr->url) != 0) &&

The ADStringLength (&reqPtr->url) != 0) &&
                           - (DStringValue(&reqPtr->url) [0] != '/'))
                    DStringFree Atargetury)
                                           DStringFree (&targetUrl);
                                                                                                                                                                                             added to collegate correction
                                              DStringFree(&escapeUrl);
                                                                                                                                                                                                                                       TO SEE THE SECRETARY AND A SECOND SECTION OF THE SECOND SECTION OF THE SECOND SECTION OF THE SECOND SECTION OF THE SECOND SECOND
                                                                                                                                                                                 F* 9.76 276
                                               if (!ticketPtr->valid)
                                                                                                                                                                                           CERTAIN MODEL OF NEW MICHOR FOR
                                                        DStringFree (&ticketPtr->sid);
                                                                                                                                                                                    tilzar (tilltak) – til tiltantil (1856)
                                                                                                                                                                                                                                      return TCL RETURN ;
                                                                                                                                                                                                                                                                ELECT TOT PETER TO
                       DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(AuthServer)), -1)
                       ComposeURL(reqPtr, DStringValue(&reqPtr->url), &escapeUrl)
                       EscapeUrl (&escapeUrl);
                       DStringAppend(&targetUrl,DStringValue(&escapeUrl),6-1); Company and Second
* DStringAppeal (EtargetUrl, "&domain=", -1);
                                                                                                                                                                                                                                        ್ಲಿ ಎಕ್ಕಾರ್ ಕ್ಷಣದ ಇತ್ತಿದ್ದ ಅವರ
                       DStringTrunc(&escapeUrl, 0);
                                                                                                                                                                                   Palakanang pelulih di mpalakan di dinakang Palakan di Silakan di S
                      for (i=1; i < argc; i++)
                                                                                                                                                                 The control of the complete of the control of the c
                                  in a right of the wat the office
                                  if (cp != NULL)
                                                                                                                                                                                                                                                          South Cart of Cart Condens Pal
                                                                                                                                                                                                                                                                               The second control of the second of the seco
                                            DStringAppend(&escapeUrl, cp, -1);
                                            DStringAppend(&escapeUrl, " ", -1);
```

```
EscapeUrl(&escapeUrl);
                                                           ಕರ್ಮಾಟಕ ಮಾಡಿ ಇದ್ದಾರಕ್ಕೆ ಇಂಟ್ಲನ
   DStringAppend(&targetUrl, DStringValue(&escapeUrl), -1);
   DStringFree(&escapeUrl);
  HTTP_Error (reqPtr, REDIRECT, DStringValue (&targetUrl));
   IncTicketCounter(CountRemoteRedirects);
  DStringFree (&targetUrl);
                                                           Chaparita Tolk Control Control
  if (!ticketPtr->valid)
      DStringFree (&ticketPtr->sid);
                                                                                          Lotta 編 sport fela in in in in a
  return TCL_RETURN;
                                                                                         o<mark>it</mark> que o los abolo ticitos
                                                                                            Agos la Historia / Al
                                                                                       . خن ا ا
  /* authorization failed, if this is a ticket access, decode the */c
  /* reason and handl via a redirect to a handler, or punt a
  /* no access message */
  if ((flavor == ticketTicket) && (firstLegalDom != -1). && (ticketPtr->ticketD
    /* check For IP address restrictions */
if ((DStringLength(&ticketPtr->ticket IP) != 0) &&
             (DstringLength(&TicketGlobalData(TicketAdrHandler)), (1-10) [ 26 7:
             (strcmp(DStringValue(&ticketPtr->ticketIP), DStringValue(&reqPtr->remo
        DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(TicketAdrHandle
       DStringAppend(&targetUrl, DStringValue(&ticketPtri>fields), :-1);
       DStringAppend(&targetUrl, "&url=", -1); (3)
        DStringAppend(&targetUrl, DStringValue(&reqPtr.>url), -1);
        IncTicketCounter(CountTicketAddr);
        HTTP_Error(reqPtr, REDIRECT, DStringValue(&targetUrl));
        DStringFree(&targetUrl);
        return TCL_RETURN;
                                                                                           三甲基 化氢氯化 化二氯基苯基 化二氯基基基
         Terrandia to truck and to the tailor
 /* check for expired tickets */
if (time(0) > ticketPtr->ticketExp)
     DStringAppend(&targetUrl, DStringValue(&TicketGlobalData(TicketExpHandle
     DStringAppend(&targetUrl, DStringValue(&ticketPtr->fields), -1);--
     DStringAppend(&targetUrl, "&url=", -1);
                                                                                                         المناه المنافية المنا
     DStringAppend(&targetUrl, DStringValue(&reqPtr->url), -1);
     IncTicketCounter(CountExpiredTicket);/*
HTTP_Error(reqPtr, REDIRECT, DStringValue(&targetUrl));
DStringFree (&targetUrl);
return TCL_RETURN;
                                                                                  Contract to the property of
```

```
/* no handler, punt a message */population Allastic in the contraction
     HTTP_Error(reqPtr, FORBIDDEN, "access denied by Require ticket/sid region
      CO
                                               $1 Left to mail to the court to their the second to the first
      IncTicketCounter(CountNoRedirects);
                                                                                                                                                  Companya da Calca de A
      if (!ticketPtr->valid)
                                                                                                                                             Cartination and Cartin
     DStringFree(&ticketPtr->sid);
                                                                                                                                                              The second control of the second
     DStringFree(&targetUrl);
     DStringFree(&escapeUrl);
                                                                                                                                             CORN CARLOTTE SEAR STORY OF
     return TCL_RETURN;
                                                                                                  The second section of the second section is the second section of the second section of the second section is the second section of the second section section is the second section of the second section sec
     }
                                                                                                      ye shouldd hill Cymud Didaw Colles
                                                         mean in going
                                                                                                                                               A CHARLESTON CONTRACTOR OF THE
     * Get(Ascii)Domain --
     * These routine performs an ascil to binary domain name lookup,
     * indexed by 'key') from the server's domain name catalog. Name/number
    * pair's are loaded into the catalog at configuration time with the
* with the "Domain" configuration command. The Ascii version returns
    * a pointer to a character string that represents the domain number.
 * The non Ascii version returns an integer representing the domain number.
                                                                                                                                         out to agent it is easing to the con-
    * Results:
   * Integer value of domain. If no domain is available, returns deflt.
 * Side effects: The section of the write of the office of the section of
    * None, Fig. and India in the Gold Go. 2 450 April 28 F. Alemand Co. 17
                                                                  The Control of the Add Supplied to the Company of the Addition
                                                                                                                                                                                                         - :.
   static int GetDomain (char *domname, int deflt)
                                                                                                                                                                            Fradrict to 2 to 2 to
           HashEntry *entryPtr;
                                                                                                     ्रात्रक अन्य का ६० का अध्यक्त मह अने पूष्ण । इस ह
           DString DomName;
        DStringInit (&DomName);
           DStringAppend(&DomName, domname, -1);
           strtolower (DStringValue (&DomName)); " ** ** Anther to resemble the first of the string of the stri
          entryPtr = FindHashEntry(&TicketServerData.Domains,
                                                                                                                                                                  PLED Seams Forest GLA
  DStringValue(&DomName));
                                                                                                                                                                             all Sight af 2
          DStringFree(&DomName);
                                                                                                                                                              . ಕಲ್ಲಿಯ ಕ್ಷಮಿಕ್ಕೆ ಕ್ಷಮಿ 1321
           if (entryPtr == NULL) return deflt;
```

```
return (int) GetHashValue(entryPtr); hadd son the war and the control of the cont
                                                                                                             చిందలు కాల్లోన్నార్ కాయుల్యకులు సమార్థికి మూడకులు చేసిన చేసిని చేసిన చేసిన చేసిన కాల్లోని మూడకులు చేసిన
                                                 static char * GetAsciiDomain(char *domname, char *deflt)
                                                                                                                                                                                                                                                                                                                                   in adom is to the more resistant restart of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     undawakan melangan
                                                                    HashEntry *entryPtr;
                                                                    static char buffer[64];
                                                                                                                                                                                                                                                                                                                                                                                              in the second products of lengther Mil.
                                                                    DString DomName:
                                                                                                                                                                                                                                                                                                                                                                                                                                                 LECTER - AND CONTRACTOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                          CONTRACTOR AND THE PROCES
                                                                 DStringInit (&DomName);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e datum e dun mada e
                                                                   DStringAppend(DomName, domname, -1);
                                                                    strtolower(DStringValue(&DomName));
                                                                    entryPtr = FindHashEntry(&TicketServerData.Domains,
                                             DStringValue(&DomName));
                                                                 DStringFree(&DomName);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The section of the se
                                                                   sprintf(buffer, "%d", (int) GetHashValue(entryPtr));
                                                                return buffer;

Li naivy e has incremepairon on the translation of the control of
                                              Note that the property of the second of the 
                                            The service control of antaractic terms of the control of weather and the services of the serv
with the control of t
                                                         TICKET_InsertLocalSid --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                医电子设备性工具
                                                                                                                                                                                             The district of German marks
                                                                                                                                                                                                                                                                                                                                                                                                                                              3.
                                             * Given a URL, inspect it to see if it refers to the local server/port
                                             * if it does, and it does not already contain a SID, insert one if
                                             * the current request included one. Note, for port 80 access we look
                                             * for a match with and without the port specifier.
                                             * Results:
                                                                                                                                                                                                                                                politica and generate to the other office and and analysis
                                             * None.
                                             * Side effects:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              erupeynous republication et
                                                               A SID may be inserted into the URL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The state of the s
                                            */
                                                                                                                                                                                                                                                                                                                   ्राहर कुलार के प्राप्त के विकास के विकास के विकास के विकास के
                                           void TICKET_InsertLocalSid(HTTP_Request *reqPtr; DString *result) = -
                                                              HTTP_Server *serverPtr;
                                                               TICKET_Request *ticketPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         and the section of the first section of the
                                                               char tmp[32];
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ing the table of the design to the T
                                                              DString pattern1;
                                                                                                                                                                                                                                                                                                            ್ನ ಭರತಿಕೊಂಡು ಕಟ್ಟಿ ವಿಮಿಟ್ ಕಟ್ಟ್ ಚ್≇್ ಬ್ಲಿಕ್
```

```
DString pattern2;
   DString tmp_url;
   DString *hitPattern * NULL;
   ticketPtr = (TICKET_Request *) HT_GetReqExtData(reqPtr,
TicketServerData.tic
   if (ticketPtr == NULL) return;
   serverPtr = reqPtr->serverPtr;
   DStringInit(&pattern1);
  DStringInit(&pattern2);
  DStringInit(&tmp_url);
  DStringAppend(&pattern1, "http://", -1);
  DStringAppend(&pattern1, DStringValue(&serverPtr->serverName), -1);
  DStringAppend(&pattern2, DStringValue (&pattern1), -1);
  DStringAppend(&pattern1, tmp, -1);
                                           THE WAR THE
  if ((DStringLength(result) >= DStringLength(&pattern1)) &&
    (strncasecmp(DStringValue(&pattern1), DStringValue(result),
DStringLengt hitPattern = &pattern1;
                                        ented the state of the beat a
else
                                                      graduate and the second
if ((serverPTR-->server_port == 80) &&
  (DStringLength(result) >= DStringLength(&pattern2)) &&
  (strncasecmp (DStringValue (&pattern2), DStringValue (result);
DStringLength hitPattern + &pattern2;
                                                   organización de la composición de la c
                                                    if (hitPattern ! = NULL)
                                                សស្នា 🗓 😼 😘 ប្រជាជា
  DStringAppend(&tmp_url, DStringValue(hitPattern), -1;
  DStringAppend(tmp_url, DStringValue(&ticketPtr->sid), -1);
  DStringAppend(&tmp_url, &DStringValue(result)
                                                   [DStringLength (hitPattern)], 120 (200 E13
                                                   The Life and Green the
  DStringFree(result);
                                                   Albertains
                                     ្រែកក្នុងនេះជា
                                                    (\mathbf{p}_{\mathbf{k}})^{T} , \mathbf{p}_{\mathbf{k}} \mathbf{p}_{\mathbf{k}} \mathbf{p}_{\mathbf{k}} \mathbf{p}_{\mathbf{k}} \mathbf{p}_{\mathbf{k}}
                                     ಕ್ಷಾಗಳಲ
  DStringFree(&tmp_url); we recommend
                                                  ានសុខស្រាយ ស្រាស់ ស្រាស់
                                     ស្រាញ់ ស្រាជាបស
        10 . 75 1
 DStringFree (&pattern1);
                                          ್ಕ ಸಮ್ಮ ವಿ.ಯಾವಾನ್ ನೀ ಕ ಸಂಸ್ಥೆಗಳು
 DStringFree(&pattern2);
                                          A A STEE A RESIDENCE OF MINE
 DStringFree(&tmp_url);
                                 ្ត ព្រះ ( ) ( ) ( ) ( ) ប្រើបារជាធិប្រជាជាធិប្រ
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_______ है। स्टब्स्ट एक पूर्व करते । व्हर्त ।
विकास स्टब्स
                                       e vitar on the second of the second
* CreateSid --
  This routine takes the passed arguments and creates a sid
                               inggs, ethic en south cut in
* Results:
* A sid.
                               at the end of the ending of the contract of
                                    A TO LONG AND THE SECOND
* Side effects:
                                     . Grant Copy to the contract of
char * CreateSid(HTTP_Request *reqPtr, int dom, int wid, int kid, int exp,
int uctx)
              of theres where a time is a great of the end
        ുന്നു. പുറുത്തു പുത്തുടെയ്യും പ്രവലം ഉത്ത്യമാന്ത്രം വിവര്ത്തുന്നു. ഇന്നെ ആവര്ക്കും ഉത്ത്യാ
  o (1) or a construct (4) the conjugation of
  char temp_str[512];
 DString hash;
  int act_hash@addeds.dipacymb ted a lite act. to the igniteract the
 static char; sid[64]; HTT | TO BETO BOOK LET UNEREST COLERANT OF THE
 char *secret;
                         · 金丰 (6)建一 本 进口 一种 一维新华 一 利亚 一
 char *hashP:
 unsigned char tecpy ( ಕರ್ಮ ಕರ್ನು ಕರ್ನು ಕರ್ಡಾಡಿಯ ಅದರ ಇವರಿ ಕ್ರಾಂಡ್ ಸ್ಟರ್ಚಿಸಲ್ಲಿ ಕರ್ಮ ಕರ್ಮಕ್ಕೆ ಕರ್ಮ
                          unsigned int eda;
 int endian = 1;
                                    ್ನಮ್ ಕ್ಟ್ರಿಪ್ಟಿಕ್ಕರು ೧೯೯೯ ಕ್ಟಿ
 DStringInit (&hash):
 THE MAN LOW BULLS VELLE - BUT LEVEL - BUT OF THE CONTROL OF SECTION AS A
 put_sid(dom_lw,
                  uid_pos,
 put_sid(uid lw,
 put_sid(kid_lw,
                           kid_mask, kid);
                   kid_pos,
 put_sid(exp_lw,
                   esp pos,
                              exp_mask,
n ja viete in the lytik tot
                             uctx_mask, uctx); **** **** ****
 put_sid(uctx lw,
                  uctx_pos,
 put_sid(rev lw,
                  rev_pos, rev_mask, sid_rev_zero);
 secret = GetSecret(kid);
                                      Comments of the State of Line I
 ASSERT (secret ! = NULL);
                                      ing the contract of the contract
 DStringAppend(&hash, secret, -1);
```

```
DStringAppend(&hash, DStringValue(&reqPtr->remoteAddr), -1;
                sprintf(temp_str, "%08x%08x", bsid[2],bsid[1]);
               DStringAppend(&hash, temp_str, -1);
                /* format of the hash string is %s%s%08x%08x", \ 1.37 ... \ 2.37
      secret, ip_addr, bsid[2[,bsid[1
                                                                                                                                                                            A (B. The in Lety Thereis)
               hashP = DStringValue (&hash);
                                                                                                                                                                                                         Lat drit real :
               act_hash = compute_ihash(hashP);
                                                                                                                                                                          while (*hashP ! = 0) *hashP++ = 0;
               DStringFree (&hash);
      /* fix_endian(&act_hash, ecp, eda); *// Eng and Ebay as topic
                                                                                                                                                                                              Committee Commit
                   /* fix_endian(&bsid[0], ecp, eda); */
                                                                                                                                                                                                                           4.9* 2.17
                     fix_endian(&bsid[1], ecp, eda);
                     fix_endian*&bsid[2], ecp, eda);
                                                                                                                                                                                                                      the same of the t
     #if (1 == 0
                                                                                                                                                                                                                            11.12 E. S. 17.17 1.17
              DumpSid();
     #endif
                    cp = radix64encode_noslash((char *) bsid, 12);
                    strcpy(sid, SID prefix);
                    strcat(sid, cp);
                                                                                                                                                                                                                    -- 35 8 FAS 1 1
                    free (cp);
Congression of the state of the
                                                                                                                                                                                                                                             compute hash --
                                                                                                                                                                                                                            まつのようなも いっぱんご
                        Compute the MD5 hash for the specified string, returning the hash as
                            a 32 b xor of the 4 hash longwords.
                                                                                                                                                (duar temple establishings of messon service
                       Results:
             hash int.
                                                                                                                                                                                                                                   -13. . 1. ann
                                                                                                                                                                                    The first war to the distance of
            * Side effects:
                                                                                                                                                                                   e apterminación cursinalistas
```

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```
*/ The Company of the State of 
                                 static int compute_ihash(char *str)
                                                                                                                                                                                                                                                                                             ್ನ ಕಲ್ಲಿ ಆಡಕ್ಷ್ಮ್ಯ ಕಲ್ಲಿ ಚಿನಾಗಿಕೆ ನಿರ್ವಾಹ ಕರ್ಮಿಯ
                                                             unsigned char hash[16];
                                                                                                                                                                                                                                                                                                                                                              Carry of the Stage Cart
                                                                                                                                                                                                                                                                                                                                              of the transfer of the same of the same
                                                              unsigned int *pl;
                                                                                                                                                                                                                                                                                                               and the set of the set
                                                             unsigned int hashi = 0;
                                                                                                                                                                                                                                                                                                                     District Additional Control of Children
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ್ ಕಟ್ಟಿಸಿ ಕಿತ್ರಾಯಕ್ಕೆ ಚಿತ್ರಗಳು
                                                    MDInit (&md5);
                                                  MDUpdate(&md5, (unsigned char *) str, strlen(str));
                                                  MDFinal(hash, &md5);
                                                  pl = (unsigned int *) hash; (436) | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 
                                                                                                                                                                                                                                                                                                general effective and the control of the control of
                                                  hashi = *pl++;
                                                                                                                                                                                                                                                                                                               (ens ignation ElD. aca (albumin)
                                                  hashi ^= *pl++;
                                                                                                                                                                                                                                                                                                                            وجراني الجرهيدات بطلبان بقائل بوالها والمساور
                                                  hashi ^= *pl++;
                                                  hashi ^= *pl++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return hashi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - (1527)/bac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3. A . B . II I
                                                         computeHash --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3 - 3 - 5 - 5 - 4
                                                        Compute the MD5 hash for the specified string, returning the hash as
                                                        a 32-character hex string.
                                                    Results:
                                     Pointer to static hash string.
                                      * Side Effects:
                                       * None.
್ಷನ್ನು, ತಿಗ್ಗಳುತ್ತಾಗುವುದು ಕಾರ್ವನ್ನು ಗರ್ವಾಗಿಗಳ ಗರ್ವಹಿತ ಕಾರ್ವಹಿತ ಕಾರ್ವಿಗಳ ಕಿರ್ಮಿಸಿದ್ದರು.
                                                                                                                                                                                                                                                                            Million of the contract of the
                            static char *computeHash(char *str)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      L. Turett
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5.55
                                                int i;
                                               MD5 CTX md5;
                                               unsigned char hash[16];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     892234 A 8 8 75
                                                 static char hashstr[33];
                                                 char *q;
```

```
grants (MD5Init (&md5); The research to set of the control of the 
                  MD5Update(&md5, (unsigned char *) str, strlen(str));
                  MD5Final(hash, &md5);
                  q = hashstr;
                  for(i=0; i<16; i++ {
                     sprintf(q, "%02x", hash[i]);
                                                                                                                                                                      imudatia en L
                     q += 2;
                  *q = ' \setminus 0';
                  return hashstr;
           }
                                                                                                                                  (1,1,1) switch in Let \Delta L(1) \lesssim 7.75 \, M_{\odot}
              * TICKET_ParseTicket --
              * Called by dorequest, before any region commands or mount handlers
                    have run. We parse and handle incomeing sid's and tickets.
                                                                                                    ាត់ទៅព្រះមានដែល នៅជាប្រធានជាក្នុង មិនមានដែល
              * Results:
                                                                                                                                                            None.
                                                                                                                                                                        4 1 2 . At 2 36
                                                                                                                                                                40 = 40,048
              * Side effects:
                                                                                                                                                      Company of the Sound was a
                                                                                                                                                    */
          int TICKET_ParseTicket(HTTP_Request *reqPtr)
                                                    ිදු ලබා සිට විශ්ය සම්මාණය වෙනවන්
අතුරු පළමු විශ්ය කිරීම සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්න
සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ සිටිකින්නේ
                int status = HT OK;
                                                                                                                              文文 The Area Market ( 基) 解 ( ) 1 ( ) 1 ( ) 1 ( ) 1 ( )
                                                                             ार होत्य अस्तरभूषि १७ १४६१० । विकास र राज्य १५
                 IncTicketCounter(CountTotalUrl);
                if (TicketGlobalData(EnableTicket) & (status == HT OK)) status =
          ParseTicke return status;
                                                                                                                          ONES SERVICES TO BE SELECTED TO CO.
                                                                                                                                       ರವಿಗ ಸಂಶಕ್ತಕರ್ಗವನ್ನು ನಿರ್ಮಿಸಿದ್ದರು ನಿ
                                                                                                                          i ski ste il tulkita il tiplici
                                                                                                                       医乳腺性小胞毒素 化环 重大的 计二键 医克斯特氏 化化苯基苯
                                                                                                                                                                      SECSO - Ex. 1 + 122
                                                                                                                                                                n grangs als en er filter i file.
              ParseSid --
                                                                                                                                     ្នាក់ ខែ ខែ ស្រាស់ ស្រាស់
                                                                                                                                       Land of Edition to Have the contract
```

```
Called by TICKET_ParseTicket, before any region commands, or mount handle
             have run. We parse and handle incomeing sid's.
                                                                                                                                                                               とものである。 しょしがく かた 思りばい
    * Results:
                                                                                                                                                                                                                     ಇತ್ತವೆಯ≶ೇ ಕಳ
            None.
                                                                                                                                                                                        The state of the s
                                                                                                                                                in the state of the contract of the state of
         Side effects:
                                                                                                                                                                                                          TOTAL * SAIL ""
   int ParseSid(HTTP_Request *reqPtr)
     · {
            TICKEKT_Request *ticketPtr;
           HTTP_Server *serverPtr;
           DString hash;
           Int i;

    demoifatming and I in

            char *cp. *cpl; shusance respon (ac 4. 100) (resupersh ud collin
           unsigned int cur_tim, tdif, exp_tim;
           char *secret;
                                                                                                                                                                                                                                 eudlicher 🤌
           char temp_str[512];
           char *hashP;
           int sid_ok = 0;
                                                                                                                                                                                                           19 10 93 Ed 45 17 7
          unsigned char *ecp;
          unsigned int eda;
int endian = 1;
           int ip1, ip2, ip3, ip4;
/* fetch the server private ticket extension data */
/* note that this sets up a default ticket block for both SID's and Ticket a
serverPtr = reqPtr->serverPtr;
ticketPtr = (TICKET_Request *) Malloc(sizeof(TICKET_Request));
HT_AddReqExtData (reqPtr, TicketServerBata.ticketExtensionId, ticketPtr, free
DStringInit(&ticketPtr->rawUrl);
                                                                                                                                                                   ್ ಕ್ರಮ್ ನಿಗ್ಗೆ ಇದ್ದು ಕ್ರಾಂಗಿಕ್ ಕ್ರೌಡಿಯ ಕರ್ಮಕ
DStringInit(&ticketPtr->sid);
DStringInit(&ticketPtr->fields);
DStringInit(&TicketPtr->signature);
DStringInit(&TicketPtr->ticketIP);
ticketPtr->valid
ticketPtr->sidDom
ticketPtr->ticketDom = -1;
ticketPtr->ticketExp = -1;
ticketPtr->uid
```

```
TicketPtr->uctx
                                                                                                                                      1 1.3.
     sscanf (DStringValue (&reqPtr->remoteAddr), : "%d.%d.%d.%d", &ip1, &ip2, &ip3, &
     ticketPtr->uid =, (((ipl+ip2)<<24) | ((ip3+ip4)<<16) | (rand() & OxFFFF));
      ticketPtr->uctx = 1; , , seas by a long or research to the
     /* we are done if sids are not enabled, or this url does not have a sid */
      if (!(TicketGlobalData(EnableSid))) return HT OK;
      if (strstr(cp1, SID prefix) ! = cp1) | weights along the darker
           return HT_OK;
     and the second of the factories of the second
           DStringAppend(&reqPtr->url, "/", -1);
           DStringAppend(&reqPtr->path, "/"; -1); Established the second of the sec
           in the life ment of add the edge for a
    cp = strchr(cpl+sizeof(SID_prefix);'/');
    if ((cp - cpl) != sidLength)
          return HT_OK;
                                                                                                                                                           a feets and that to die the day to
                                                                                                                                       ្រុក សា សា ស៊ុះអស់វិប្រជាជន្មាន ១ ស៊ុះស៊ីស៊ីប្រែប
    IncTicketCounter(CountSidUrl);
                                                                                                                                           The market and the first and t
DStringInit(&hash);
                                                                                                                                           ೯೯೭೬ ಪ್ರಧಾರ ತೊಂದ್ವಿಸರಾವಿ ಗಳು ಗಕ್ಷ್ಮನ್ನು
                              e production of the contraction of
    /* if sid eater is enabled, rewrite the url without the sid, and reprocess t
    ಸ್ವಾಮ್ಗಳ ಪ್ರತಿಕ್ರಿಸಿದ್ದಾರೆ. ಇದು ಸ್ಥಿಯಾಗಿ ಕ್ರಮಿಯ ಸಂಪ್ರಾಮ ಸ್ಥಿಯಾಗಿ
          DStringAppend(&hash, DStringValue(&reqPtr->url), -1);
          DStringFree(reqPtr->url);
         DStringAppend(&reqPtr->url, DStringValue(&hash) &hash) +sidLength, -1);
          DStringTrunc(shash, 0); ... 1 100 6 74 10 0 100 100 2. 20 20
         DStringAppend(&hash, DStringValue(&reqPtr-.path), -1);
                                                                                                                           <u>เกล้าสิสหนา โดยเม้าการีได้</u>
         DStringFree (&reqPtr->path);
         DStringAppend(&reqPtr->path, DStringValue(&hash)+sidLength, -1);
         DStringFree (&hash);
         IncTicketCounter(CountDiscardedSidUrl); And the country of the cou
                                                                                                                                                                                                    Contractor & Co.
         return HT OK;
  DStringAppend(&ticketPtr->sid, -DStringValue(&reqPtr->url), si
                                                                                                                                                                               AL SERIAME STILLOTT
  /* first convert the SID back to binary*/
  i = DStringLength(&ticketPtr->sid)-3;
 bsid = (int *) radix64decode_noslash(DStringValue(&ticketPtr->sid)+3, i, &i)
  iif ((bsid == NULL) || (i !+12)) goto rtn_exit;
  fix_endian(&bsid[1], ecp, eda);
                                                                                                                        on debases as the mile symmetry
 fix_endian(&bsid[2], ecp, eda);
```

```
/* check the SID version field */
         if (get_sid(rev_lw,rev_pos,rev_mask) ! = sid_rev_zero) goto sid bad;
    if (get_sid(rsrvl_lw,rsrvl_pos,rsrvl_mask) ! = 0)) goto sid bad;
         if (get_sid(rsrv2_lw,rsrv2_pos,rsrv2_mask) !+ 0) goto sid bad;
                                            Total Combination of the Professional State of the State 
         /* Get a pointer to the secret */ - 116.22 - a s / 1 a time i to i
         secret = GetSecret(get_sid(kid_lw,kid_pos,kid_mask));
         /* hash the sid and check the signature*/
         DStringAppend(&hash, secret, -1);
                                                                                                                       Agricultural of the subsequence of the first
        DStringAppend(&hash, DStringValue(&reqPtr->remoteAddr); -1)
         dstringAppend(&hash, temp str, -1);
         /* format of the hash string is %s%s%08x%08x%, secret, ip_addr, bsid[2], bsid[1
                                                                                                                                                                 នេះក្រុម ខេត្ត ខេត្ត ខេត្ត ខេត្ត
                                                                                                                                                                                                        weight the be
        hashP = DStringValue(&hash);
                                                                                                                                                   , fight (Source)) teaming they allowed
        act_hash = compute_ihash(hashP);
        while (*hashP != 0) *hashP== 0;
         fix_endian(&act_hash, ecp, eda);
                                                                                                                                                                                          Track the second
         if (act_hash != get_sid(sig_lw,sig_pos,sig_mask)) goto sid_bad;
* is is ok, may be expired, but good enough to id: useria.*/
         ticketPtr->uiid = get_sid(uid_llw,uid_pos,uid_mask);
        tdif = (exp_tim - cur_tim) & Oxffff;
                                                                                                                                          if (tdif > 0X7fff)
                                                                                                                                                                                        is a set of the
               IncTicketCounter(countExpSid) prompted as a result of the second state of the second state of the second state of the second sec
                                                                                                                                                                                                         30 Tet 1: 1 127
               goto sid exp;
         /* sid is fine, gave the sid state, update the urles:*/. a) and the walls and
         ticketPtr->sidDom = get_sid(dom_lw,dom_pos,dom mask);
         ticketPtr->valid = 1;
                                                                                                                                                                                                        ** ****
                                                                                                                                                                  in the region of the second second
         sid ok = 1;
                                                                                                                              11.
         is that some a set of the set of 
         sid bad:
              if (!(sid_ok)) IncTicketCounter(CountInvalidSid);
         sid exp:
                DStringAppend(&ticketPtr->rawUrl, DStringValue(&reqPtr->path), -1);
```

```
DStringTrunc(&reqPtr->path, 0);
        DStringAppend(&reqPtr->path, DStringValue(&ticketPtr->rawUrl)+sidLength, -1)
  DStringTrunc(&ticketPtr->rawUrl, 0);
  DStringAppend(&ticketPtr->rawUrl, DStringValue(&reqPtr->url), -1);
  DStringTrunc(&reqPtr->url, 0);
 DStringAppend(&reqPtr->url, DStringValue(&ticketPtr->rawUrl)+sidLength, -1);
  rtn_exit:
       DStringFree(&hash); ....
       if (bsid != NULL) free(bsid);
       return HT_OK;
                                                                                                          The content of the second of the left
    * freeTicketRegData
                                           . Entrader Buck to the term of and the trade Assign to the constant
           This routine frees the storage used by ticket specific request
    * data.
    * Results:
   * Side effects:
        Memory freed.
;tatic void freeTicketReqData(void *dataPtr)
                                                                                                                                                                  organia (mai di s
      TICKET_Request *ticketPtr = dataPtr;
      DStringFree(&ticketPtr->rawUrl);
      DStringFree(&ticketPtr->sid);
   DStringFree(&ticketPtr->fields);
      DStringFree(&ticketPtr->signature);
     DStringFree(&ticketPtr->ticketIP);
     free(ticketPtr);
                                                                                                                                                 A the court of the state of
                                                                                , with a section of the contract of the contra
                                                                                                              ್ಕಾರ್ಯ ಇವರು ಕರ್ಮಕ್ಕೆ ಕಡೆಗಳು ಕರ್ನಾಗಿ ಸಂಪರ್ಧಕ್ಕೆ
      GetSecret --
                                                                                                  THE BUNDANCE COLDS CHARLES THE CALL CONTROL
        Given a binary keyID, returns an ascii secret from the
```

. . . .

```
secrets store.
                                                                                                                                                                                                                                                                                                                                       And the second of the second o
                                           for untranslatable names, return NULL: proceedings, bearing and
                     * Results:
                                                                                                                                                                                                                                                                                                             Company of the second of the control of the
                                          Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Commit
                   * Side effects:
                                                                                                                                 es:
Supplied to the Recognition of the Comment of the State of the Sta
                                                                                                                                                                                                                                                                                                                                                              Control of the Contro
      char *GetSecret(int kid)
                       HashEntry "entryPtr;
                      entryPtr + FindHashEntry(&TicketServerData.SecretsKid, (void *) kid);
                       if(entryPtr == NULL) return NULL;
                     return DStringValue(((DString *)GetHashValue(entryPtr));
                                             സ്കാരത്തെ പ്രധാനക്കുന്ന അത്തര്ന്നുള്ള നിന്നും നിന്നും നിന്നും നിന്നും നിന്നും വിവര്ശ്ചന് വര്യാണ് വര്യാണ് വര്യാ
                           GetKidByKeyID --
                                  Given an ascii KeyID return the binary Key ID.
                                   for untranslatable names, return -1.
               Results:
                                  "I've got a secret, now you do too"
                 Side effects:
                                                                                                                                                                                                                                                                                                   STOLERS OF PERSON STORE STREET
                                                                                                                                                                                                                                                                                                                                                              jingakuran leuri alumati
                                                                                                                                                                                                                                                                        ్షుక్తుంది. ఇవాడు దర్శాయి. ఇవస్తు
                                                                                                                                                                                                                                                                                                             1 411 -
                                                                                                                                                                                                                                                                                                                                                                                                                                  ୍ର ପ୍ରକ୍ତିକ୍ତ ଓ ଅଟଣ୍ଡ ଅଟଣ ୟ
                                                                                                                                                                                                                                                                                                                 1.14774 2 77
int GetKidByKeyID(char *keyID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ( 11 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m - 1 m
               HashEntry *entryPtr;
  entryPtr = FindHashEntry(*&TicketServerData.KeyID< (void *) keyID);</pre>
               if(entryPtr == NULL) return -1;
               return (int) GetHashValue(entryPtr);
                                                                                                                                                                                            grand the engineering of the contract of the second
```

```
* fieldParse --
     * Given a string, a separator character, extracts a field up to the
     * separator into the result string.
    * Does substitution on '%XX' sequences, and returns the pointer to the
    * character beyond last character in '*endptr'.
                                                                                                                                                                                  to the property
                                                                                                                                                 ్ జాన్కి కార్లు ఉన్నాయి. దక్షించారు కారుడి చ
    * Results:
    * Returns a malloc'ed string (caller must free), or NULL if an
    * error occurred during processing (such as an invalid '%' sequence).
    * Side effects:
    * None.
*/
#define SIZE INC 200
statiic char *fieldParse(char *str, char sep, char **endptr)
         char buf[3];
                                                                                                                                                                                                     a Broom wills at the
         char c;
         char *end, *data, *p;
         int maxlen, len; - - top right substitution to reduct the division
                                 is a work to must be to account the trape of section of the trape of the section of the trape of the section of
        len = \mathbf{0}_{F/2} , part, respectively describe the first length qT .
        p = data = malloc(maxlen) printar at it it it is to be a fixed by a fixed that
                                                                                                                                                                  January and the state of the st
   * Loop through string, until end of string or sep character.
  while(*str && *str != sep) {
                                                                                                                                                                                                            Life: officetts -
        if(!isxdigit(str([1]) | | !isxdigit(str[2])) {
                               free (data):
                     preturn NULL; it is also because of the bear where the budgets
                                                                                        we wasta togate and
             buf [0] = str [1];
                                                                                                                                                                                                                         12 . 3.1 .2.
            buf[1] = str [2];
                                                                                                                                                                                         , and extract the first terminal and the
            buf[2] = ' \setminus 0';
                                                                                                                                                                                                             in a substitution of the same
             c = strtol(buf, &end, 16);
                                                                                                                                                                                                          according to a const
             str += 3;
```

BNSDOCID: <WO___9642041A2_I_>

```
} else if(*str == '+') {
                                                                                                                                                      str++;
                } else
               · c = *str++;
                       indicate Book with a contract of the contract 
                                                                                                                                                                                  Consumer the second of the contract of
               len+;
               if(len >= maxlen) { 기가 가는 그는 그를 가는 다른 기를 보고 있다. 그 1720
                    maxlen += SIZE INC;
                    data = realloc(data, maxlen);
                   Barrier Communication of the second section of the section of the second section of the section of the second section of the sect
                                                                                                                                                                                                                                                                                                                                         e superior of
                    *p++ = ' \0';
                     *endptr = str;
                    return data;

    ราบ อพ. อิธิบล ประเพิดและ

                                                                ್ರಿಯಾರಿಸು ಗಳಿಯಾಗಿದೆ. ಇವರ ಸಂಪರ್ಕ ಮಾಡಿ ಪ್ರಾಕ್ರಿಯಾಗು ಇಂದರ ಗುಮಾರ್ಯ ಮಾಡಿದ್ದಾರೆ
                                                                                                                                                                                                                                                                                                                       Addition that
                    DomainNameCmd --
                                                                                                                                                                                                                                                                                                                                       1 1 1 1 1
                                                                                                                                                                                                                                                                                                      The sales of the care
                  A call to this routine, builds the ascii domain name
             to binary domain name maping structure for a numeric domain.
                   Syntax is Domain number name1 name2 name3 name...name last:
                   At least one name is required. The number is decimal and a control of the state of 
                   can be any value except -1. -1 is reserved as a marker
                   for untranslatable names.
                                                                    or lives of a condition to each outside or and original or modes
                   Results:
                   None.
      * Side effects:
                   Commands are validate, and entries added to the map
     */
static int DomainNameCmd(ClientData clientData, Tcl_Interp *interp,
                                                                                                                                                int argc, char **argv)
               int new, i;
               HashEntry *entryPtr;
               int DomNumber;
               DString DomName;
```

```
-€$. -42-
```

```
if (argc <3)
                                                           Tcl_AppendResult(interp, argv[0], " directive: wrong number of "
                                                                                                                                            "arguments, should be \"3\"", let r an area let
                                                                                          (char *) NULL);
                                                            return TCL_ERROR;
                                                                                                                                                              g og from til og skjælikkup og i ladenskiftis flatt i lætte laden for til klimat
                                         DStringInit (&DomName);
                                                                                                                                                                                                                                          ್ರಾಚಚಿತ್ರಗಳ ಕಾರ್ನಿಗಳ ಮುಂದು ಚಿತ್ರಕ
                                         if (((sscanf(argv[1], "%d", &DomNumber) ! = 1 || (DomNumber == -1)))
                                                                                                                                                       grand to present the control of the second state of the second state of the second sec
                                                          Tcl_AppendResult(interp, argv[0], " directive: ",
                                                                                                                        "Domain number must be an integer, and not equal to -1",
                                                                                                                        ", value found was ",argv[1],
                                                                                                                         (char *) NULL);
                                                                                                                                                                                                                                                                                                                                                                                    1 - 1 - 1
                                                          return to TCL ERROR;
                                                          In the reservoir process of the second of all repeating the entire that are also all
                                        LATEN TO THE OF
                                                        DStringFree (&DomName);
                                                                                                                                                                                                                                                                                                                                                                   នេះស្រីកុម្មន្ត្រីប្រាស់ នាយានមាន
                                                         DStringAppend(&DomName, argv[i], -1);
                                                         strtolower(DString Value(&DomName));
                                                         entryPtr = CreateHashEntry(&TicketServerData.Domains, DStringValue
                                                                      (&DomNam
                                                        if (new == 0)
                                                                                                                                                                                                                                                               ි. (ය) පලකුණ යනු කය<sup>ි</sup> වැඩපම්පිරින් ඇම් ුර්ම්
                                                                                                                                                                                                 end with the sel form tilter a series with a
                                                       Tcl_AppendResult(interp, argv[0]), #gdirective: but to be a recommendation of the comment of the
                                                                                                                                                                                                                                                                                                                                                  (char *) NULL);
                                                     return TCL ERROR;
              (1.11) \cdot \sum_{i=1}^{n} (2.14) \cdot (1.14) \cdot (1.14) \cdot (1.14) \cdot (1.14) \cdot (1.14) \cdot (2.14) \cdot (2.14) \cdot (1.14) \cdot (2.14) \cdot (1.14) \cdot (2.14) 
                                                                                                                                                                                                                                                                                                                                                           of Clarge and his of the
                                                        SetHashValue(entryPtr, DomNumber);
out the complete state of the second of the control of the second of the control of the control
                                      return TCL_OK;
                                                                                                                                                                                                                                                                    , logues . . m. s. . It is to a Halas p. s. . ""
                                                                                                      re dige. The project of the advantaged to entropy
                                                   SecretsCmd --
                                                           A call to this routine, builds kid to secrets table
                                                                                                                                                                                              ಾರ್ಯವಾದ ವಿವರ್ಧನಿಗೆ ನೀಡುವರೆಗಳು ನಡೆದು ಅರ್ಥದ ಕ್ರೀಟ್ ಅಥವಾಗಿ ಅಧಿಕಾರಿಗಳು ಅಥವಾಗಿ ಮಾಡುವರೆಗಳು
                                                                                                                                                                                                                                                                                                                                       Results:
```

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```
* None.
   * Side effects: Construction of the constructi
    * Secrets are stored. (4) 3 d thursh afternaging
static int SecretsCmd(ClientData clientDate, Tcl_Interp *interp,
                                                                                                                                                                     omba di na Alia mina
                                                       int argc, char **argv)
                                                                                                                    CHI STANIS COLORED CON BUILDING A COST A CO
         int newKid, newKeyID;
         HashEntry *entryPtrKid = NULL, *entryPtrKeyID = NULL;
         int Kid;
                                              1.977
                                                                                                                     ുട്ടി ആരു പ്രത്യാഗത്ത് ആരുത്തെ ആദ്യത്ത്വ
         DString tdsptrKid; as a separation of the determinant and the
                                                                                                  g entregen (1. flager), to a large specific
         if (argc ! = 4)
                                                                                                                                                             Control to the Control
       Tcl_AppendResult(interp, argv[0], " directive: wrong number of "
                            "arguments, should be \"4\" ", --1 -> 2000 > 1 -2000
                            (char *) NULL);
       return TCL_ERROR;
                                                                                                                                                       ್ಯ ಕ್ರಕ್ಷಣ ಸಂಕರ್ಣದಲ್ಲಿ ಕರ್ಕಾಣಕ್ಕೆ ಕರ್ಮಕ್ಕೆ
       }
                                                                                                                the lightest and the comparemental feet
                                                                                                                Carron and a his contraction of the contraction
       if (sscanf (argy [2], crad, takid) of the 1) of the form of the first of the
       Tcl_AppendResult(interp, argv[0],
                            " directive: KeyID must be an integer",
                            ", value found was stoppedry [2] / when, it will be a limited and
                       (char *) NULL);
       return TCL_ERROR; and it is septial to the first of the about a first to the control of the cont
                                                                                                                                                                                1, 500 00 1.30
                                                                                                                                                                              1 19 4 LA 1 to 8th
    entryPtrKid = CreateHashEntry(&TicketServerData.SecretsKid, (void *) Kid, &n
     if (strlen(argv[1]))
                                                                                                                ្សាននយោធាន ប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រធានប្រ
          entryPtrKeyID = CreateHashEntry(&TicketServerData.KeyID, (void *) argv[1],
     if ((newKid == 0 || ((newKeyID == 0) && strlen(argv[1])))
      Tcl_AppendResult(interp, argv[0],
                           " directive: Duplicate Secret specified for KeyID '",
                           arqv[1].
     (char *) NULL);
      return TCL_ERROR;
                                                                                                                                                                                              **. 4 * * * * * *
     if (strlen(argv[1]))
                                                       ອໃຫ້ສະ ພາກຕາລະ ຫາ ກໍ່ໄດ້ ພາກົດພ້າ ຄຸວະຕາຄຸດ ເພື່ອ
      dsptrKid = (DString *) malloc(sizeof(DString));
      DStringInit(dsptrKid);
```

```
DStringAppend(dsptrKid, argv[3], -1); " the bound of a sale of sale of the sal
                                                                                                                                                                                                                                                      Lastings course as seed
                   SetHashValue(entryPtrKid; dsptrKid); Stern and a work of the control of the contr
                                                                                                                                                                                                                                                                                                      1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 ) 1 (18 )
                                                                                                                                                                                                                                                     SetHashValue(entryPtrKeyID, Kid); Start of the actual of the second
                                                                                                                                                                                                                     (research constitutions) rose to a single of the
                      return TCL OK;
                                                                                                                                                                                                   ា នេះជាមួយដីដែរ សេវិទស្សន៍ដែរ ការ សេវី គឺ ១០ ជំនិង ៤០ 🕟 🦠 បណ្ណារ
                                                                                                                                                                                            The first term of the second second second second
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                                                                                                                                                                                                        THE TOUR TRANSPORT OF SOME PROPERTY AND THE STATE OF THE 

    alle premio (qui peol) (alle de l'erri e se autil e qui non.

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                   TICKET: Initialize --
                                                                                                                                                                                       CONTROL CONTROL CARTING 1845.
                                                                                                                                                                                                                                                                                 medicing to while interest, its
                        Calls all the necessary routines to initialize the ticket subsystem.
                       Results: the meson of the collection of the standard of the collection of the standard of the 
                                                    None : of DW (), or one of your last : Puterson of the directors of
                      Tell Crisce Jummerta (interp - #73 incofor i elionari fles ". Omistraing . es u
                        Side effectsWit . (restar equipment are dendefectable) assistant of
                                    as Commands added to the region interpreter.
                      SID "/@@": url catcher declared.
                                                                                                                                                                                              opilar sins tit ligger dittagen in attem 220%
                                                                 .avistration)
                                                         s 1901 jagus milikost ir kijamar 100 kmada rejilak
                                                                     assasVthill of the season at the time of the continuous
int TICKET_Initialize(HTTP_Server &serverPtr, Tcl Interp *interp)
{
    TicketServerData.ticketExtensionId = HT_RegisterExtension(serverPtr,
    "ticket
                                                                                                                                                   The thank of the book of the Bush of the Constitution of
              InitHashTable(&TicketServerData.SecretsKid, TCL_ONE_WORD_KEYS);
              InitHashTable (&TicketServerdata KeyID, TCL STRING KEYS):
              InitHashTable(&TicketServerData.Domains, TCL_STRING_KEYS).
             /* initialize Server ticket data */
             DStringInit(&TicketGlobalData(AuthServer));
             DStringInit(&TicketGlobalData(TicketExpHandler));
             TicketGlobalData(FreeArea)
             TicketGlobalData(EnableLocalAuth)
                                                                                                                                                                                                                                                                  = 0;
                                                                                                                                                                                                                                                                                                                                                   TicketGlobalData(CurrentSecret)
                                                                                                                                                                                                                                                                  = 0;
             TicketGlobalData(EnableSid)
             TicketGlobalData(EnableTicket)
                                                                                                                                                                                                                                                                 = 0;
             TicketGlobalData(EnableSidEater)
                                                                                                                                                                                                                                                            \cdot = 0;
             TicketGlobalData(LocalAuthExp)
                                                                                                                                                                                                                                                                = 60*30;
             /* ticket event counters */
```

```
TicketGlobalData(CountTotalUrl)
                                                                  TicketGlobalData(CountSidUrl)
                                                                                = 0:
    TicketGlobalData(CountExpSid)
    TicketGlobalData(CountInvalidSid)
    TicketGlobalData(CountCrossDomain)
    TicketGlobalData(CountLocalredirects)
    TicketGlobalData(CountRemoteRedirects)
    TicketGlobalData(CountNoRedirects)
    TicketGlobalData(CountDiscardedSidUrl)
    /* Ticket related Config commands */
    Tcl_CreateCommand(interp, "Domain",
                                                                                       .....DomainNameCmd.
                       (ClientData) serverPtr, NULL);
    Tcl_CreateCommand(interp, "Secrets", Secrets@md;
(ClientData) serverPtr, NULL);
    Tcl_CreateCommand(interp, "AuthenticationServer", CmdStringValue,
                (ClientData) & TicketGlobalData(AuthServer), NULL); attovi
    Tcl_CreateCommand(interp, "TicketExpirationHandler", CmdStringValue,
      (ClientData) &TicketGlobalData(TicketExpHandler), NULL); plibe edil. e
   Tcl_CreateCommand(interp, "TicketAddressHandler" of CmdStringValue,
      (ClientData) &TicketGlobalData(TicketAdrHandler), NULL); 100 100
    Tcl_CreateCommand(interp, "FreeDomain",
                                                                                         CmdIntValue,
      (ClientData) &TicketGlobalData(FreeArea), NULL);
    Tcl_CreateCommand(interp, "EnableSidEater",
                                                                                         CmdIntValue,
      (ClientData) &TicketGlobalData(EnableSidEater), NULL);
    Tcl_CreateCommand(interp, "EnableSid",
                                                                            CmdIntValue,
      (ClientData) &TicketGlobalData(EnableSid), NULL)
   Tcl_CreateCommand(interp, "EnableTicket",
                                                                                        CmdIntValue, President
      (ClientData) &TicketGlobalData(EnableTicket), NULL);
   Tcl_CreateCommand(interp, "EnableLocalAuth", CmdIntValue, .....
      (ClientData) & TicketGlobalData (EnableLocalAuth), NULL);
   Tcl_CreateCommand(interp, "CurrentSecret", CmdIntValue, A. M. C.
      (ClientData) & TicketGlobalData (CurrentSecret), NULL);
   Tcl_CreateCommand(interp, "LocalAuthExp", CmdIntValue,
      (ClientData) &TicketGlobalData(LocalAuthExp), NULL);
                                                   នៅញ៉ាញ៊ីវាមាន១០វិកាស ស៊ីវាមាស ប៉ែក
   HT_AddMounthandler(serverPt
                                                  tr, (ClientData) NULL, TICKET_DebugHooks,
      "/omiserver", NULL);
                                                                               jan (1997), sul millowesti⊒T
                                                                    Plus Ibus - Idag Boras Comunications
   return HT OK;
                                                                        ver a large to a constant with
                                                                               in the second se
                                                                                        Comment of the second of the second
```

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```
* TICKET_Shutdown --
          Calls all the necessary routines to shutdown the ticket subsystem.
           None.
 * Memory freed
            in the company of the subsection graphs because were an
                         The transport of the second of
                                                       with the Higher Constitution 200
 void TICKET_Shutdown (HTTP_Server *serverPtr)
        HashEntry *entryPtr;
        HashSearch search;
        DString * *dstring;
       DStringFree (&TicketGlobalData (AuthServer));
       DStringFree (&TicketGlobalData(TicketExpHandler));
        DStringFree (&TicketGlobalData (TicketAdrHandler));
        entryPtr = FirstHashEntry(&TicketServerData.SecretsKid, &search);
        while (entryPtr ! = NULL)
                                                                                                                                           Company of Fig. 4
          dstring = GetHashValue(entryPtr);
          DStringFree(dstring);
          free (dstring);
          entryPtr = NextHashEntry&search);
       DeleteHashTable (&TicketServerData.SecretsKid);
       DeleteHashtable (&TicketServerData.KeyID);
       DeleteHashTable (&TicketServerData.Domains);
                                                                                                               er, bill raila, albala edaligili
           postodu a salt i cras e el sur sur susta ablantada un arabanta sur s
   * TICKET AddRegion Commands --
                                                                                                                             are ittlifetoit
                           Add TICKET region commands for authentication/authorization
decisions.
    * Results:
                           None.
```

```
Location in the Control of the Contr
   * Side effects:
                         Commands added to the region interpreter.
void TICKET_AddRegion Commands (HTTP_Request *reqPtr, Tcl_Interp *interp)
                                                                                                                             Tcl_CreateCommand(interp, "RequireSID", TICKET_RequireSidCmd,
                                                           (ClientData) reqPtr, NULL);
              Tcl_CreateCommand(interp, "RequireTicket", TICKET_RequireTicketCmd,
                                                          (ClientData) reqPtr, NULL);
              .}
                                                             ्र तर राष्ट्रकार र जाराज्य विश्वास । साथ तत्त्व त्रावस्त्रार र राज्य
                                                                                                                 ्रास्य च्याकार व क्षाप्रातीत्रा
                                                                                                                     ಇತ್ಯಗ್ರಹ್ಮ ಬಲಸಾಗುತ್ತಗೆಗರಿಕ
                                                                                    Edd gibrat (inicastic editorii)
              Add TICKET CGI variables to the CGI variable table, surrections
        Results:
                                                                                                         rys, a sylve sidd
   * Side effects:
                                                                                   NEWSON FOR COSTS THE CONTRACTOR
                         Extends the CGI variable hash table.
                                                                                                                              ್ರಾಕ್ಷಣೆ ನಡೆಸುವುದು ಇತ್ತಿಗಳು ಸ್ವಿತ್ಯ ಎಂದು ಕಾರ್ಯಾಕ್ಷಣೆ ಬಿಡ್ಡರು
void TICKET GetCGIVariables (HTTP Request *req)
              TICKET_Request *ticketPtr = (TICKET_Request *)
HT_GetReqExtData(req.TicketS
   * If there's no extension data, then we're not doing a ticket. Just
return
                                                                                            And a second and the second and the second
     om of the feture) V; respectively the state of the mode of the state
               if (ticketPtr == NULL)
```

```
if (DStringLength(&ticketPtr->rawUrl) ! = 0)
                                HT_AddCGIParameter(req, "TICKET_URL", DStringValue(&ticketPtr-
       >rawUrl), FA
                     if (DStringLength (&ticketPtr->sid) != 0)
                                HT_AddCGIParameter(req, "TICKET_SID", DStringValue(&ticketPtr-
       >sid), FALSE to the total design of the terms of the term
                     if (DStringLength(&ticketPtr->fields) != 0)
                      HT_AddCGIParameter(req, "TICKET_FIELDS", DStringValue(&ticketPtr-
      >fields).
                     HT-AddCGIParameter(reg, "TICKET_SIGNATURE". DStringValue(&ticketPtr-
      >signa
                    }/*
         *TICKET_GetUrl
                                   THE REST OF SECURISHING AND THE LEADING MAD COMPANIES.
                               Return the original url (with sid)
                                                            and the Bullet skill best beforedaile 7000 to
                             The URL.
                                                                   The firmer much substitution is the Original or the best
                                                                                            Company of the second
        * Side effects:
                             None.
                               */
     char * TICKET_GetUrl(HTTP_Request *reqPtr)
នានានា ស្រាស់ (ស្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ សម្រាស់ សម្រាស់ សម្រាស់ ស្រាស់ ស្រាស់ ស្រាស់ សមានមនុស្ស ស្រាស់ ស្រា
                   TICKET_Request *ticketPtr;
                   ticketPtr = (TICKET_Request *)
             HT_GetReqExtData(reqPtr, TicketServerData.ticketExtensionId):
                   if ((ticketPtr != NULL) &&
                                   (DStringLength(&ticketPtr->rawUrl) != 0))
                              return DStringValue(&ticketPtr->rawUrl);
                  else
                return DStringValue(&reqPtr=>url)
                                                                     o grafija nažda i sektor možili a udili prebliki je 113
                     grave grave verman rock butte forest in the five feetenship.
       * TICKET_ConfigCheck
                              Perform late configuration checks
```

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of the King tweether of Figure 2012 of the parties of the
                * Results: A sale of the state of the sale of the sale
                                                                            THE PROPERTY OF THE PROPERTY OF THE
                * Side effects: ಸಾಹಾರ್ಡಿಸಿದ್ದಾರೆ ಅಗಳು ಭಾರತೀಸವಾಗಿಸುವ ಭಾರ
ಮಾರ್ಯಾಕ್ ಮಾರ್ಡಿಸಿದ್ದಾರೆ
                                      Possible message loged/printed, and program exit'd.
                                                             the term of the defendance to the term of the terms.
void TICKET_ConfigCheck()
   ordernia.t (s. 2000 m. de la forma la bisji ubizh a del la mese la ficepañ a la f
                          HashEntry *entryPtr;
                          int kid;
                          if ((TicketGlobalData(EnableSid) & -Oxl) != 0)
                                                                                                                                              DEDUKE COMO MILE
                                     LogMessage(LOG_ERR, "EnableSid must be 0 or 1");
                                     exit (0); [ba. layer of the collection of the name of
                          if (!(TicketGlobalData(EnableSid))) return;
                          kid = TicketGlobalData(CurrentSecret);
                          if (kid && kid_mask) != kid)
                                                                                                                                          Company with a result of
                                     {
                                    LogMessage(LOG-ERR; "CurrentSecret %d is invalid", kid);
                                                                                  to Bolema in automatic and the control of the control of
                         entryPtr = FindHashEntry(&TicketServerData.SecretsKid, (void *) kid);
                                                                                                     ್ರಾಗ್ಯಾನಿಕ್ಕಿನ ಕಿಗ್ಗಾರ ಪ್ರವಾಕಿಸಿದ್ದ ಹೆಸುಗಿತ
                         if(entryPtr == NULL)
                                                                                           The gasto, to the it was in
            LogMessage (LOG_ERR), "No secret defined for CurrentSecret %d", kid;
                                                                                                  as the market start of
                                                                     ารสารครองการสาราช เมษายนการ ค.ศ.
                         LogMessage(LOG_ERR, "FreeArea, must be between 0 and 255");
                                    exit(0);
                                    }
                         if ((TicketGlobalData(EnableSidTicket) & -0x1) != 0)
                                   LogMessage(LOG_ERR, "EnableSidTicket must be 0 or 1");
                                   exit (0);
                                                                                                                                43530 ST R DOMEST A
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if ((TicketGlobalData(EnableTicket) & -0x1) !- 0);
                                                                                                                                                          LogMessage(LOG_ERR, "EnableTicket must be 0 or 1");
                                                                                                                                                           exit(0);
                                                                                                                                                           }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if ((TicketGlobalData(EnableLocalAuth) & -0x1) |= 0)
                                                                                                                                                         LogMessage (LOG_ERR, "EnablLocalAuth must be 0 or 1");
                                                                                                                                                                                                                                                                                                                      The first of the contract of the parties of the par
                                                                                                                                                                                                                                                                                                             CANADAM BOOKED BEFORE MAD ANTEL A MADELLE FORE
                                                                                                          }
                                                                                                                                                                                                                                                                                                                                                                                       /*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gas fig. in a well-t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . LC. 1 :
                                                                          TICKET_DebugHooks
                                                                                                          Check for debug hooks and execute if found? The same and 
                                                                                                                                                                         ್ಷ ಆದರ್ಜ ಕರ್ಮನಗಳ ಬಳಕಾಗಿ ರಾಜಕ ಕಾಡಿಕೆಗಳು ಕರ್ಮಕ್ಕೆ ಕರ್ಣಕ್ಕೆ ಚಿತ್ರಕ್ಕೆ ಬಿಡುಕೊಡ್ಡಿಗೆ ಬಿಡುಕ್ಕೆ ಬೆಳಗಳ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  t traiper trubselling more
                                                                      Results:
                                                                                                        None. Page 10 American page 10 June 10 Laure 12 Edin Graffer Loss Commissions Blook (2007) is
                                                                                                                           than a predict of a single control of the Constant of the
                                                        * Side Effects:
                                                 A Committee of the Comm
                                                      */
 tatic void TICKET_DebugHooks (ClientData clientData; char *suffix;
                                                                                                                                                                                                                                                                                                                                                  HTTP_Request #reqPtr) This is a first that
                                                                                                        Control of the state of the sta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in graf light 25%
                                                                                                        exist the first commence of the commence of th
                                                                                                                                                                                                                                                                                                                                                                                                                                                    COLD 4 may be the 1870.
                                                                                                                      DumpStatus(reqPtr);
                                                                                                      HT FinishRequest (reqPtr); a st still the single of the first single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                া এটাৰ চেন্দ্ৰ ভোষৰ হাবিষ্ণে বিভাগ
                                                                                                                         return:
providence in American constitution of and in the State of the state of the American
                                                                                 HTTP_Error(reqPtr, NOT_FOUND, "access denied due to poorly formed url");
                                                                   1.05.11
                                                                                                                                                                                                                                                                                                                                                                                                                                             ik (2277), je i iku speti baku 1770 (
                                                              The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                                                in the control of the
                                                                                                 (g) TWO (see a you like to that the bound bear of the Big William
                                                     * DumpStatus --
                                                                                                      Dump the server's ticket staffs the line of the Market and the staff of the control of the contr
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     Results:
            None.
                      പ്രവിധാന കുറിത്രം വാധനം അത്രത്തിക്കുന്നു. അത്രം വിശ്യാസ് ആദ്യാവിരുന്ന്
  * Side effects:
            None.
                              #/
#define BUFSIZE 1024 John Francisco (A. 2010 J. A. 2010
static void DumpStatus(HTTP_Request *reqPtr)
     HTTP_Server *serverPtr = reqPtr->serverPtr;
     char tmp[BUFSIZE], timeStr[BUFSIZE];
     struct utsname sysinfo;
     time_t uptime;
     int hours;
                                                                                                       awor4;.... 12 mm (0.7)
     HTTP_BeginHeader(reqPtr., 200 OK); and the second particle which the second
     HTTP_SendHeader(reqPtr, "Content-type: text/html", NULL);
     HTTP_EndHeader(reqPtr);
     HTTP_Send(reqPtr, "<title>WebServer Ticket Status</title>", " ... "
                                               "<hl>WebServer Ticket Status</hl>:, NULL);
                                                                                                               radu B.B. Modil
     HTTP_Send(reqPtr, "<hr>>><h2>Ticket Log</h2>", "\n", NULL);
    sprintf(tmp, " <b>%s: </b> &d\n", "Number of access"
                                                                                                                                     ", Ticket
     HTTP_Send(reqPtr, tmp, NULL);
     sprintf(tmp, " <b>%s: </b> %d\n", "Number of SID URL's ", Ticket
    HTTP_Send(reqPtr, tmp, NULL) pat pak_ ; -- .
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Valid SID's
                                                                                                                                       ", Ticket
    HTTP) Send (reqPtr, tmp, NULL) a chappearts
                                                                                        sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Expired SID's
                                                                                                                                       ", Ticket
    HTTP) Send(reqPtr, tmp, NULL);
                                                                                         in the terms of the terms of
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Invalid-SID"s
    HTTP) Send(reqPtr, tmp, NULL);
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of XDomain accesses ", Ticket
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Local Redirects ", Ticket
    HTTP) Send (reqPtr, tmp, NULL);
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of Remote Redirects ", Ticket
    HTTP) Send (reqPtr, tmp, NULL);
    sprintf (tmp, " <b>%s: </b> %d\n:, "Number of No Auth servers ", Ticket
    HTTP_Send(reqPtr, tmp, "", NULL);
                                                                                                                  · 11 2...52
   uptime = time (NULL) = serverPtr->started;
    uname(&sysinfo);
```

striftime(timeStr, BUFSIZE, "%A, %d-%b-%y %T",

```
localtime(serverPtr->started));
                              The state of the
    springf(tmp, "Server runing on <d>%s</b> (%s %s) port %d, has been up \
                    since %s.", sysinfo.nodename, sysinfo.sysname,"
                     sysinfo.release, serverPtr->server_port, timeStr);
    HTTP_Send(reqPtr, tmp, NULL);
ଓ ଓଡ଼ିଶା ଓ ଜଣ୍ଡଣ ଓ ଅନ୍ତ୍ରିକଟ ଓଡ଼ିଶ୍ୟ ଓ ହୁଣ ଓ ଅନ୍ତର୍ମ୍ୟ ଓଡ଼ିଶ୍ୟ ଓ ଖି
    sprintf(tmp // " <b>Number of connections: " </b>
 - Para Andrew ServerPtr->numConnects); では9点 も 9点にいまずしず
    <b>Number of HTTP requests: g() < \b> %d\n",.
    sprintf(tmp, "
   HTTP_Send(reqPtr, tmp, "", NULL);
                                  its Tribles and no writer
  chours = max(uptimes/3600;01); no sees seen gridned to
sprintf(tmp, "This server is averaging <b>%d</b>erequests per hour.","
             serverPtr->numRequests/hours); (11) (10) (10) (10)
   HTTP_Send(reqPtr, tmp. NULL);
   DumpRusage (regPtr) areas I are all all bemisio as loader. A
 /*
      DumpConnections(reqPtr) / */
                                  a pranas no alasar escueja
                 To pake we not militim atmarged estimate
   DNS_DumpStats(reqPtr);
   HTTP_Send(reqPtr, "<hr><address>", DStringValue(&ht serverSoftware),
 unily now eath "</address>\n", NULL) essence end ofe no massign
                       ೧೬೮ ತರ್ವ ವಿಜ್ಞಾರಂಬ ತತ್ತ ಪ್ರಮುಖಕಾಗಿ ಆಕ್ರಮಿಸಿಗಳು
   reqPtr->done = TRUE;
                                                 .a. Bediper ila
#undef BUFSIZE The residue to the 10 of the about the following
          neditore output telline testine par an all tellines are expu
                                                                       47.2
   a diverve of repeated requence from a large of the
      A mothered that of execute in Clarcy and other than accurate
           the month of the great field spendaged in anti-section mediater
        information to access patherally of the monacular
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go cara son o moral prisas identidos ao personados como igrante. What i<mark>is claimed is:</mark> mado mo das regional calardo esta cara come. O romando como grandos do mado saballo cilis e

1. A method of processing service requests from a client to a server system through, a network comprising:

forwarding a service request from the client to the server system; and the server system;

returning a session identifier from the server system to the client; and

appending the session identifier to the request and subsequent service requests from the client to the server system within a session of requests.

- 2. A method as claimed in Claim 1 wherein the server system tracks an access history of sequences of service requests within the session of requests.
- 3. A method as claimed in Claim 2 wherein the server system tracks the access history to determine service requests leading to a purchase made within the session of requests.
- 4. A method as claimed in Claim 1 wherein the server

 20 system counts requests to particular services

 exclusive of repeated requests from a common client.
- A method as claimed in Claim 1 wherein the server system maintains a database relating customer information to access patterns, the information including customer demographics.

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- A method as claimed in Claim 1 wherein the server system subjects the client to an authorization routine prior to issuing the session identifier and the session identifier is protected from forgery.
- 5 7. A method as claimed in Claim 6 wherein the server system comprises plural servers including an authentication server which provides session identifiers for service requests to multiple servers.

noughbors and musically to property out Elimination and incom-

8. A method as claimed in Claim 7 wherein: Padra cons

a client directs a service request to a first server which is to provide the requested service;

the first server checks the service request for a session identifier and only services a service request having a valid session identifier, and where the service request has no valid identifier:

**Request from the client to the authorization server:

the authorization server subjects the client to the authorization routine and issues the session identifier to be appended to the service request to the first server;

appended with the session identifier to the first server; and

25 sidentifier and services the service request to the client; and the service request to the

subsequent service requests to the server system and is serviced without further authorization.

9. A method as claimed in Claims 1 or 7 wherein the session identifier includes a user identifier.

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- 10. A method as claimed in Claims as or 75 wherein the session identifiers includes an expiration time for the session.
- 11. A method as claimed in Claim 7 wherein the session identifier provides access to a protected domain to which the session has access authorization.
- 12. A method as claimed in Claim 11 Wherein the session identifier is modified for access to a different protected domain. A make the amount to as bother access to a different protected domain. A make the amount to meet the session of the session of the session and the session of the session and the session of the session and the session of the sess
- 10 13. A method as claimed in Claim 7 wherein the session identifier provides a key identifier for key management. a aspivers for the tellioned military and each management.
 - 14. A method as claimed in Claims 11 or 7 wherein the session server system records information from the session identifier in a transaction log in the server system.
 - 15. A method as claimed in Claims 1 or 7 wherein a communications between the client and server system are according to hypertext transfer protocol and the session identifier is appended as part of a path name in a uniform resource docator.
 - 16. A method as claimed in Claim 15 wherein the client modifies the path name of a current uniform resource locator using relative addressing and retains the session identifier portion of the path name unmodified for successive requests in the session.

ಕೊನ್ನಾ ಚಿತ್ರಗಾಗಿಕ ಕೆ ನಡ್ಡು ಕಿಂಗಾಗಿಕಾಗಿದ್ದಾರೆ. ಎಂದು ಕಿಂಗಾಗಿಕೆ ಬರು ಕಡ್ಡಿಗೆ ಬರುಕ್ಕೆ ಬರುಕೆ ಬರುಕ್ಕೆ ಬರುಕೆ ಬರುಕ್ಕೆ ಬರುಕೆ ಬರುಕೆ

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- 18. A method of processing service requests from a client to a server system through a network comprising:

 responding to a request for a document received from the client through the network;

 appending a session identifier, which includes a user identification, to the request; and
 - o document is customized for a particular user based on the user identification of the session identifier.
 - 19. Admethod of processing service request for a document received from a client through network in which the document has been purchased by a user comprising:

 responding to a request for a document received

and from a client through the network in which the seed document has been purchased by the user;

réquest; and a la self par l'annual action de la service d

- 20. A method as claimed in Claim-19, wherein the authorization identifier is encoded within a session identifier which is appended to the request.
- 21. A method of processing service requests from a client to a server system through a network comprising:

 responding to a request for a document received

 from a client through the network;

 appending a user identifier to the request;

and; charging the requested document to the client, and; charging the user identified in the identifier for access to the document.

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22. A method as claimed in Claim 21, wherein a user identifier is encoded within a session identifier which is appended to the request.

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- 23. A method of processing service requests from a client to a server system through a network comprising:

 10 forwarding a service request from the client to the server system; and appending a session identifier to the request and subsequent service requests from the client to the server system within a session of requests.

means for servicing service requests from a client which include the session identifier, the subsequent service request being processed in the session.

- 25. An information system as claimed in Claim 24 wherein the means for providing the session identifier is in a server system which services the requests.
- 26. An information system as claimed in Claim 23 further comprising an authorization routine for authorizing

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- means for protecting the session identifier and forgery.
- 27. An information system as claimed in Claim 24 further comprising a transaction log for recording information from the session identifier.
 - 28. An information system as claimed in Claim 24 further comprising means for tracking access history of sequences of service requests within the session.
- 10 29 an information system as claimed in Claim 24 further comprising means for counting requests to particular services exclusive of repeated requests from a common client to said as product or angular a garbayon.
- 30. An information system as claimed in Claim 24 further comprising a database relating customer information to access patterns, the information including customer demographics.
- 31. An information system as claimed in Claim 25 wherein communications between the client and server system are according to hypertext transfer protocol and the session identifier is appended as part of a path name in a uniform resource locator.
- 32. An information server on a network comprising:

 means for responding to requests for hypertext
 pages received from a client through the network by
 returning the requested hypertext pages to the client;
 means for responding to further requests derived
 from links in the hypertext pages; and

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means for tracking the further requests derived from a particular hypertext pages and the manual states of the form of the first pages and the first pages are the first pages are the first pages and the first pages are the fir

- 33. An information server as claimed in Claim 32 wherein the requests include a common session identifier and the server tracks requests within a session of requests.
- 34. An information server as claimed in Claim 32 further comprising a data base relating customer demographics to access patterns.

identifier using a translation database;
requesting information described by the page identifier from the server system; and displaying a page identified by the page identifier at the client.

20 36. A method of providing access to information pages from a client to a server system through a network comprising:

providing a descriptor at the client; and mapping the descriptor to a target page

requesting at the client information described by the page identifier from the server system without further user action; and displaying a page identified by the page identifier at the client.

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- 37. A method as claimed in Claims 35 or 36 wherein the translation database resides in the server system which returns a uniform resource loctor in a REDIRECT command to the client to cause the client to request the information using the uniform resource locator.
- 38. A method as claimed in Claim 36 wherein the descriptor comprises a telephone number.
- 39. A method as claimed in Claim 36 wherein the descriptor comprises a descriptive term.
- 10 40. A method as claimed in Claim 39 wherein the term includes a company name.
 - 41. A method as claimed in Claim 39 wherein the term includes a product name.
- 42. A method as claimed in Claim 39 wherein the term isidentified by phonetic mapping.
 - 43. A method as claimed in Claims-35 or 38 wherein the target page identifier describes a controlled page.
 - 44. A method as claimed in Claims 35 or 36 wherein the target page identifier is a uniform resource locator.



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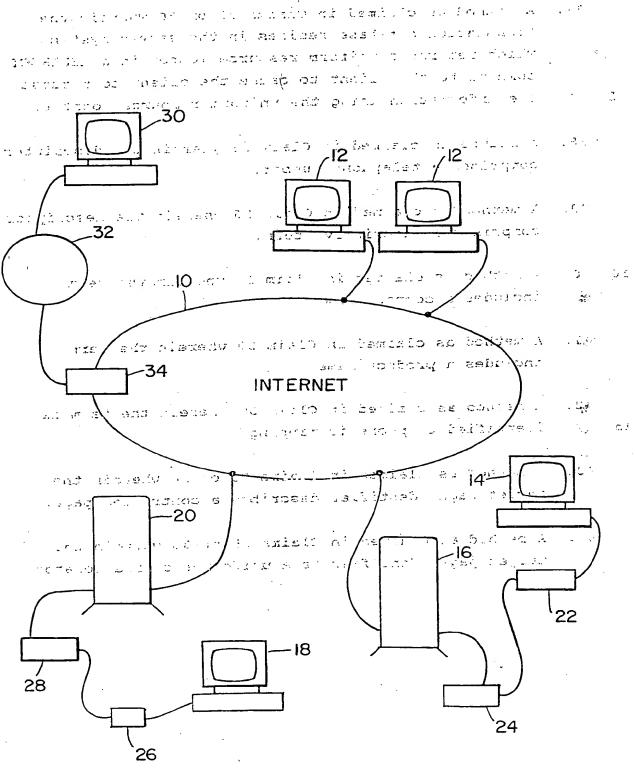
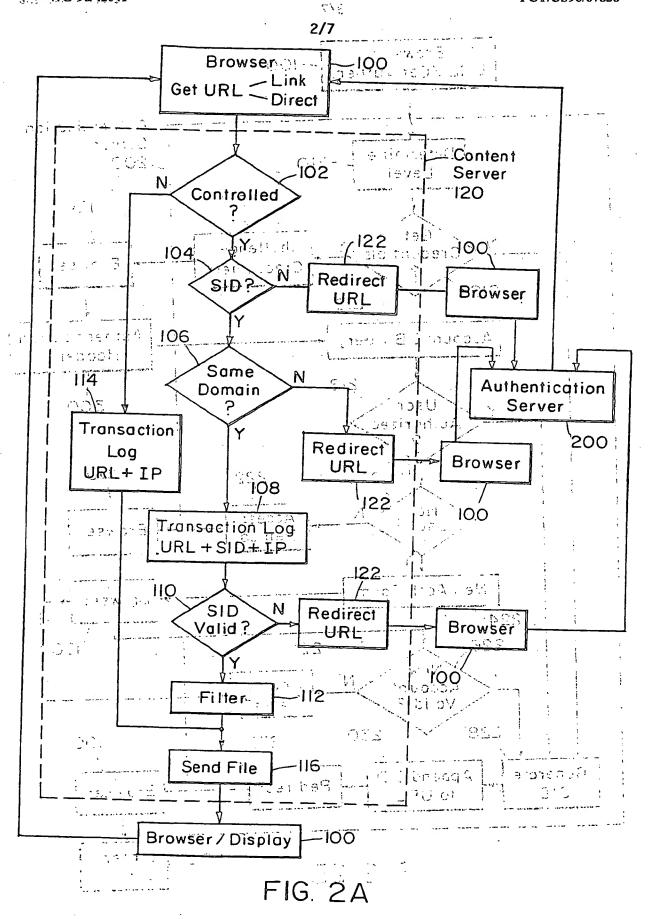
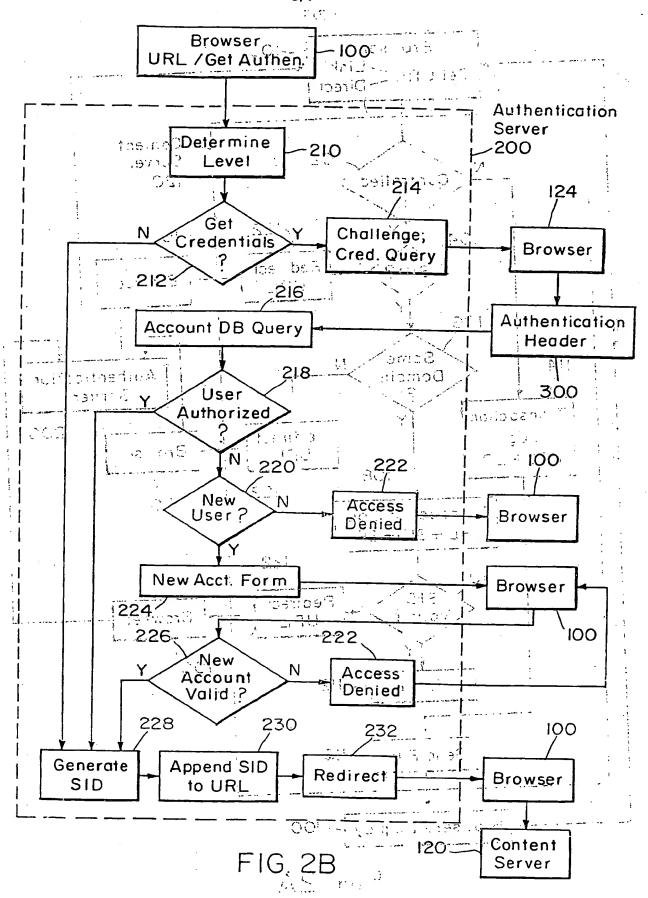
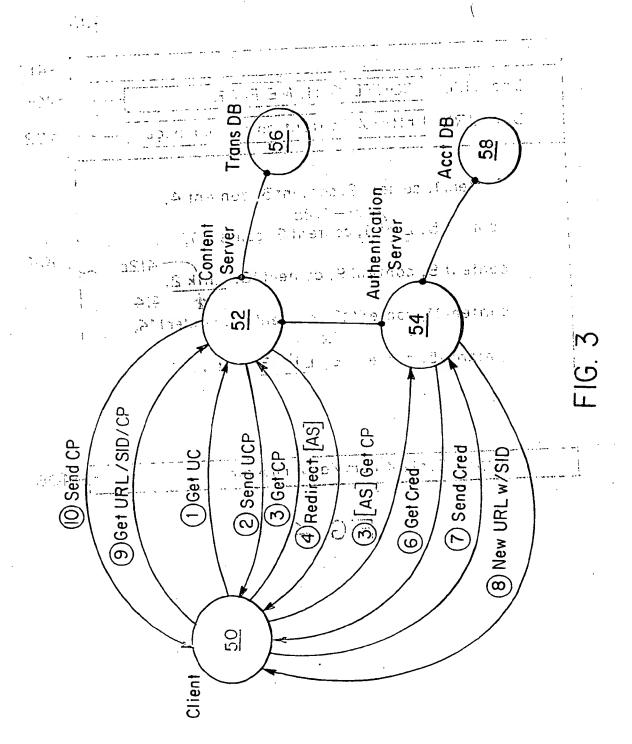
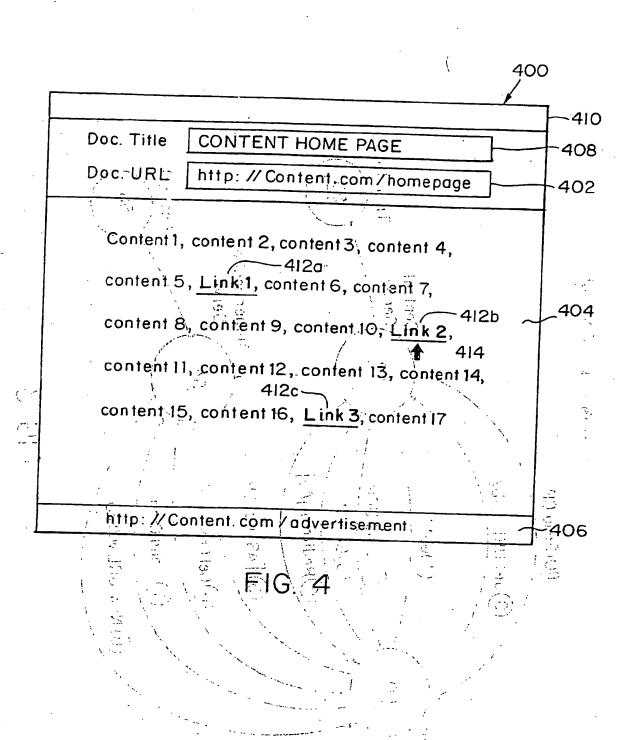


FIG. 1



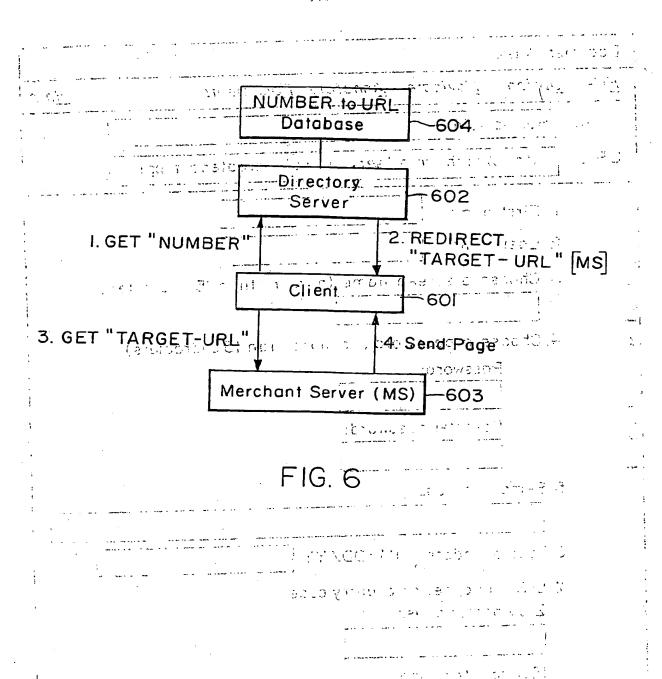






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Title: How to join 2 - 3 3 5 5 7 7 3
URL: http://auth.com/service/nph-createacct.cgi
I. First name
2. Last name
3. Choose a screen name (no more than 15 characters)
4. Choose a password (no more than 15 characters)
Password: (241 3 74 238)
Re-enter password:
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FIG. 5



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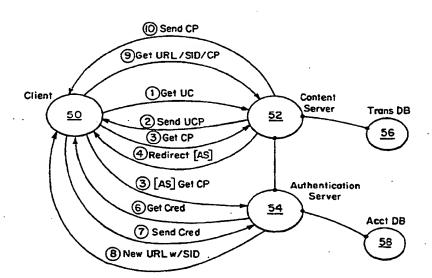
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(57) Abstract

This invention relates to methods for controlling and monitoring access to network servers. In particular, the process described in the invention includes client-server sessions over the Internet involving hypertext files. In the hypertext environment, a client views a document transmitted by a content server with a standard program known as the browser. Each hypertext document or page contains links to other hypertext pages which the user may select to traverse. When the user selects a link that is directed to an access-controlled file, the server subjects the request to a secondary server which determines whether the client has an authorization or valid account. Upon such verification, the user is provided with a session identification which allows the user to access to the requested file as well as any other files within the present protection domain.

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mal Application No PCT/US 96/07838

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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) H04L IPC 6

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

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